Hypotheses Testing
Hypotheses Testing:

**Ho 1**: the mean differences are significant at .01 level for word reversal task performances amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 1 is rejected at .01 level.

**Ho 2**: the mean differences are significant only between group 3&4, 3&6, 4&7, 5&7 and 6&7 but not in between 1&2, 1& 3, 1& 4, 1& 5, 1& 6, 1& 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3 & 5, 3 & 7, 4 & 5, 4 & 6 and 5 & 6.

Thus Ho 2(l), Ho 2(n), Ho 2(r), Ho 2(t) and Ho 2(u) are rejected and Ho 2(a), Ho 2(b), Ho 2(c), Ho 2(d), Ho 2(e), Ho 2(f), Ho 2(g), Ho 2(h), Ho 2(i), Ho 2(j), Ho 2(k), Ho 2(m), Ho 2(o), Ho 2(p), Ho 2(q) and Ho 2(s) are accepted.

**Ho 3**: the mean differences are significant at .01 level for alphabet rotation task performances amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 3 is rejected at .01 level.

**Ho 4**: the mean differences are significant only between group 1&7, 2&7, 3&7, 4&7 and 6&7 but not between 1&2, 1& 3, 1& 4, 1& 5, 1& 6, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 3&4, 3& 5, 3 & 6, 4 & 5, 4 & 6, 5 & 6 and 5& 7.

Thus Ho 4 (f), Ho 4 (k), Ho 4(0), Ho 4(r) and Ho 4 (u) are rejected and Ho 4 (a), Ho 4 (b), Ho 4 (c), Ho 4 (d), Ho 4 (e), Ho 4 (g), Ho 4 (h), Ho 4 (i), Ho 4 (j), Ho 4 (l), Ho 4 (m), Ho 4 (n), Ho 4 (p), Ho 4 (q), Ho 4 (s), Ho 4 (t ) are accepted.

**Ho 5**: the mean differences are significant at .01 level for letter recognition task performances amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 5 is rejected at .01 level.

**Ho 6**: the mean differences are significant only between group 6 and 7 but not between 1&2, 1& 3, 1& 4, 1& 5, 1& 6, 1& 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3&4, 3& 5, 3 & 6, 3 & 7, 4 & 5, 4 & 6, 4& 7, 5 & 6 and 5& 7.

Thus, Ho 6 (u) is rejected and Ho 6(a), Ho 6(b), Ho 6(c), Ho 6(d), Ho 6(e), Ho 6(f), Ho 6(g), Ho 6(h), Ho 6(i), Ho 6(j), Ho 6(k), Ho 6(l), Ho 6(m), Ho 6(n), Ho 6(o), Ho 6(p), Ho 6(q), Ho 6(r), Ho 6(s) and Ho 6(t) are accepted.

**Ho 7**: the mean differences are significant at .01 level for discrimination of upper and lower case letters amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 7 is rejected at .01 level.

**Ho 8**: the mean differences are significant only between group 4 & 7 and not between 1&2, 1& 3, 1& 4, 1& 5, 1& 6, 1& 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3&4, 3& 5, 3 & 6, 3 & 7, 4 & 5, 4 & 6, 5 & 6, 5&7 and 6&7.
Thus, Ho 8(r) is rejected and Ho 8(a), Ho 8(b), Ho 8(c), Ho 8(d), Ho 8(e), Ho 8(f), Ho 8(g), Ho 8(h), Ho 8(i), Ho 8(j), Ho 8(k), Ho 8(l), Ho 8(m), Ho 8(n), Ho 8(o), Ho 8(p), Ho 8(q), Ho 8(s), Ho 8(t) and Ho 8(u) are accepted.

**Ho 9:** the mean differences are significant at .01 level for **identification of letter size** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 9 is rejected at .01 level.

**Ho 10:** the mean differences are significant only between group 1&7, 2&7, 3&7, 4&7, 5&7 and 6&7 but not between 1&2, 1& 3, 1& 4, 1& 5, 1 & 6, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 3&4, 3& 5, 3 & 6, 4 & 5, 4 & 6 and 5 & 6.

Thus, Ho 10(f), Ho 10(k), Ho 10(o), Ho 10(r), Ho 10(t) and Ho 10(u) are rejected and Ho 10(a), Ho 10(b), Ho 10(c), Ho 10(d), Ho 10(e), Ho 10(g), Ho 10(h), Ho 10(i), Ho 10(j), Ho 10(l), Ho 10(m), Ho 10(n), Ho 10(p), Ho 10(q), Ho 10(s) and Ho 10(u) are accepted.

**Ho 11:** the mean differences are significant at .01 level for **identification of letter font** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 11 is rejected at .01 level.

**Ho 12:** the mean differences are significant only between group 3 & 7, 4& 7 and 6 & 7, but not between 1&2, 1& 3, 1& 4, 1& 5, 1 & 6, 1 & 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3&4, 3& 5, 3 & 6, 4 & 5, 4 & 6 and 5 & 6.

Thus, Ho 12(o), Ho 12(r) and Ho 12(u) are rejected and Ho 12(a), Ho 12(b), Ho 12(c), Ho 12(d), Ho 12(e), Ho 12(f), Ho 12(g), Ho 12(h), Ho 12(i), Ho 12(j), Ho 12(k), Ho 12(l), Ho 12(m), Ho 12(n), Ho 12(p), Ho 12(q), Ho 12(s) and Ho 12(t) are accepted.

**Ho 13:** the mean differences are significant at .01 level for **calculation task performances** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 13 is rejected at .01 level.

Ho 14: the mean differences are significant only between group 4&7 and 6&7 but not between 1&2, 1& 3, 1& 4, 1& 5, 1 & 6, 1 & 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3&4, 3& 5, 3 & 6, 4 & 5, 4 & 6 and 5 & 7.

Thus, Ho 14(r) and Ho 14(u) are rejected, and Ho 14(a), Ho 14(b), Ho 14(c), Ho 14(d), Ho 14(e), Ho 14(f), Ho 14(g), Ho 14(h), Ho 14(i), Ho 14(j), Ho 14(k), Ho 14(l), Ho 14(m), Ho 14(n), Ho 14(o), Ho 14(p), Ho 14(q), Ho 14(s) and Ho 14(t) are accepted.

**Ho 15:** the mean differences are significant at .01 level for **identification of single number** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 15 is rejected at .01 level.
**Ho 16:** the mean differences are significant only between group 4&7, 5&7 and 6&7 but not between 1&2, 1& 3, 1& 4, 1& 5, 1& 6, 1& 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3& 4, 3& 5, 3& 6, 3 & 7, 4 & 5, 4 & 6 and 5 & 6.

Thus, only Ho 16(r), Ho 16(t) and Ho (u) are rejected and Ho (a), Ho (b), Ho (c), Ho (d), Ho (e), Ho (f), Ho (g), Ho (h), Ho (i), Ho (j), Ho (k), Ho (l), Ho (m), Ho (n), Ho (o), Ho (p), Ho (q) and Ho (s) are accepted.

**Ho 17:** the mean differences are significant at .01 level for **identification of consecutive numbers** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 17 is rejected at .01 level.

**Ho 18:** the mean differences are significant only between group 6 and 7 but not between 1&2, 1& 3, 1& 4, 1& 5, 1& 6, 1& 7, 2 & 3, 2 & 4, 2 & 5, 2 & 6, 2 & 7, 3& 4, 3& 5, 3& 6, 3 & 7, 4 & 5, 4 & 6, 4& 7, 5 & 6 and 5&7.

Thus, only Ho 18(u) is rejected and Ho 18(a), Ho 18(b), Ho 18(c), Ho 18(d), Ho 18(e), Ho 18(f), Ho 18(g), Ho 18(h), Ho 18(i), Ho 18(j), Ho 18(k), Ho 18(l), Ho 18(m), Ho 18(n), Ho 18(o), Ho 18(p), Ho 18(q), Ho 18(r), Ho 18(s) and Ho 18(t) are accepted.

**Ho 19:** the mean differences are not significant for **figure rotation task performances** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 19 is accepted.

**Ho 20:** as no mean differences are significant between groups thus Ho 20 (a),Ho 20 (b),Ho 20 (c),Ho 20 (d),Ho 20 (e),Ho 20 (f),Ho 20 (g),Ho 20 (h),Ho 20 (i),Ho 20 (j),Ho 20 (k),Ho 20 (l),Ho 20 (m),Ho 20 (n),Ho 20 (o),Ho 20 (p),Ho 20 (q),Ho 20 (r),Ho 20 (s),Ho 20 (t) and Ho 20 (u) are accepted.

**Ho 21:** the mean differences are not significant for **colour recognition task performances** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 21 is accepted.

**Ho 22:** As no mean differences are significant between groups thus Ho 22 (a),Ho 22 (b),Ho 22 (c),Ho 22 (d),Ho 22 (e),Ho 22 (f),Ho 22 (g),Ho 22 (h),Ho 22 (i),Ho 22 (j),Ho 22 (k),Ho 22 (l),Ho 22 (m),Ho 22 (n),Ho 22 (o),Ho 22 (p),Ho 22 (q),Ho 22 (r),Ho 22 (s),Ho 22 (t) and Ho 22 (u) are accepted.

**Ho 23:** the mean differences are not significant for **sound recognition task performances** amongst the different subgroups of learning difficulty. Thus, hypothesis Ho 23 is accepted.

**Ho 24:** as no mean differences are significant between groups thus Ho 24 (a),Ho 24 (b),Ho 24 (c),Ho 24 (d),Ho 24 (e),Ho 24 (f),Ho 24 (g),Ho 24 (h),Ho 24 (i),Ho 24 (j),Ho
Ho 24 (k), Ho 24 (l), Ho 24 (m), Ho 24 (n), Ho 24 (o), Ho 24 (p), Ho 24 (q), Ho 24 (r), Ho 24 (s), Ho 24 (t) and Ho 24 (u) are accepted.

**Ho 25 (1):** There is no significant difference in **Word reversal task performance** between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 25(1) is accepted.

**Ho 25 (2):** There is no significant difference in **Word reversal task performance** between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 25(2) is accepted.

**Ho 25 (3):** There is no significant difference in **Word reversal task performance** between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 25(3) is accepted.

**Ho 25 (4):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 25(4) is rejected.

**Ho 25 (5):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 25(5) is rejected.

**Ho 25 (6):** There is no significant difference in **Word reversal task performance** between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 25(6) is accepted.

**Ho 25 (7):** There is no significant difference in **Word reversal task performance** between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 25(7) is accepted.

**Ho 25 (8):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 25(8) is rejected.

**Ho 25 (9):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 25(9) is rejected.

**Ho 25 (10):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 25(10) is rejected.
**Ho 25 (11):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 25(11) is rejected.

**Ho 25 (12):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 25(12) is rejected.

**Ho 25 (13):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 25(13) is rejected.

**Ho 25 (14):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 25(14) is rejected.

**Ho 25 (15):** There is significant difference in **Word reversal task performance** between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 25(15) is rejected.

**Ho 26 (1):** There is significant difference in **Alphabet rotation task performance** between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 26(1) is rejected.

**Ho 26 (2):** There is no significant difference in **Alphabet rotation task performance** between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 26(2) is accepted.

**Ho 26 (3):** There is significant difference in **Alphabet rotation task performance** between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 26(3) is rejected.

**Ho 26 (4):** There is significant difference in **Alphabet rotation task performance** between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 26(4) is rejected.

**Ho 26 (5):** There is no significant difference in **Alphabet rotation task performance** between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 26(5) is accepted.

**Ho 26 (6):** There is significant difference in **Alphabet rotation task performance** between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 26(6) is rejected.
**Ho 26 (7):** There is significant difference in **Alphabet rotation task performance** between normal control (group7) and group3 with moderate severity, thus the hypothesis Ho 26(7) is rejected.

**Ho 26 (8):** There is no significant difference in **Alphabet rotation task performance** between normal control (group7) and group3 with highest severity, thus the hypothesis Ho 26(8) is accepted.

**Ho 26 (9):** There is significant difference in **Alphabet rotation task performance** between normal control (group7) and group4 with mild severity, thus the hypothesis Ho 26(9) is rejected.

**Ho 26 (10):** There is significant difference in **Alphabet rotation task performance** between normal control (group7) and group4 with moderated severity, thus the hypothesis Ho 26(10) is rejected.

**Ho 26 (11):** There is significant difference in **Alphabet rotation task performance** between normal control (group7) and group4 with highest severity, thus the hypothesis Ho 26(11) is rejected.

**Ho 26 (12):** There is no significant difference in **Alphabet rotation task performance** between normal control (group7) and group5 with mild severity, thus the hypothesis Ho 26(12) is accepted.

**Ho 26 (13):** There is no significant difference in **Alphabet rotation task performance** between normal control (group7) and group 6 with mild severity, thus the hypothesis Ho 26(13) is accepted.

**Ho 26 (14):** There is significant difference in **Alphabet rotation task performance** between normal control (group7) and group6 with moderated severity, thus the hypothesis Ho 26(14) is rejected.

**Ho 26 (15):** There is significant difference in **Alphabet rotation task performance** between normal control (group7) and group6 with highest severity, thus the hypothesis Ho 26(15) is rejected.

**Ho 27(1):** There is no significant difference in **letter recognition task performance** between normal control (group7) and group 1 with mild severity, thus the hypothesis Ho 27(1) is accepted.

**Ho 27(2):** There is significant difference in **letter recognition task performance** between normal control (group7) and group 1 with moderate severity, thus the hypothesis Ho 27(2) is rejected.
**Ho 27(3):** There is no significant difference in letter recognition task performance between normal control (group7) and group 2 with mild severity, thus the hypothesis Ho 27(3) is accepted.

**Ho 27(4):** There is no significant difference in letter recognition task performance between normal control (group7) and group 2 with moderate severity, thus the hypothesis Ho 27(4) is accepted.

**Ho 27(5):** There is significant difference in letter recognition task performance between normal control (group7) and group 2 with highest severity, thus the hypothesis Ho 27(5) is rejected.

**Ho 27(6):** There is no significant difference in letter recognition task performance between normal control (group7) and group 3 with mild severity, thus the hypothesis Ho 27(6) is accepted.

**Ho 27(7):** There is significant difference in letter recognition task performance between normal control (group7) and group 3 with moderate severity, thus the hypothesis Ho 27(7) is rejected.

**Ho 27(8):** There is no significant difference in letter recognition task performance between normal control (group7) and group 3 with highest severity, thus the hypothesis Ho 27(8) is accepted.

**Ho 27(9):** There is no significant difference in letter recognition task performance between normal control (group7) and group 4 with mild severity, thus the hypothesis Ho 27(9) is accepted.

**Ho 27(10):** There is no significant difference in letter recognition task performance between normal control (group7) and group 4 with moderate severity, thus the hypothesis Ho 27(10) is accepted.

**Ho 27(11):** There is significant difference in letter recognition task performance between normal control (group7) and group 4 with highest severity, thus the hypothesis Ho 27(11) is rejected.

**Ho 27(12):** There is no significant difference in letter recognition task performance between normal control (group7) and group 5 with mild severity, thus the hypothesis Ho 27(12) is accepted.

**Ho 27(13):** There is significant difference in letter recognition task performance between normal control (group7) and group 6 with mild severity, thus the hypothesis Ho 27(13) is rejected.
Ho 27(14): There is no significant difference in letter recognition task performance between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 27(14) is accepted.

Ho 27(15): There is significant difference in letter recognition task performance between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 27(15) is rejected.

Ho 28(1): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 28(1) is accepted.

Ho 28(2): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 28(2) is accepted.

Ho 28(3): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 28(3) is accepted.

Ho 28(4): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 28(4) is accepted.

Ho 28(5): There is significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 28(5) is rejected.

Ho 28(6): There is significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 28(6) is rejected.

Ho 28(7): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 28(7) is accepted.

Ho 28(8): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 28(8) is accepted.

Ho 28(9): There is no significant difference in discrimination of upper and lower case letters between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 28(9) is accepted.
Ho 28(10): There is significant difference in discrimination of upper and lower case letters between normal control (group7) and group 4 with moderate severity, thus the hypothesis Ho 28(10) is rejected.

Ho 28(11): There is significant difference in discrimination of upper and lower case letters between normal control (group7) and group 4 with highest severity, thus the hypothesis Ho 28(11) is rejected.

Ho 28(12): There is no significant difference in discrimination of upper and lower case letters between normal control (group7) and group 5 with mild severity, thus the hypothesis Ho 28(12) is accepted.

Ho 28(13): There is no significant difference in discrimination of upper and lower case letters between normal control (group7) and group 6 with mild severity, thus the hypothesis Ho 28(13) is accepted.

Ho 28(14): There is no significant difference in discrimination of upper and lower case letters between normal control (group7) and group 6 with moderate severity, thus the hypothesis Ho 28(14) is accepted.

Ho 28(15): There is significant difference in discrimination of upper and lower case letters between normal control (group7) and group 6 with highest severity, thus the hypothesis Ho 28(15) is rejected.

Ho 29(1): There is significant difference in identification of letter size between normal control (group7) and group 1 with mild severity, thus the hypothesis Ho 29(1) is rejected.

Ho 29(2): There is significant difference in identification of letter size between normal control (group7) and group 1 with moderate severity, thus the hypothesis Ho 29(2) is rejected.

Ho 29(3): There is significant difference in identification of letter size between normal control (group7) and group 2 with mild severity, thus the hypothesis Ho 29(3) is rejected.

Ho 29(4): There is significant difference in identification of letter size between normal control (group7) and group 2 with moderate severity, thus the hypothesis Ho 29(4) is rejected.

Ho 29(5): There is significant difference in identification of letter size between normal control (group7) and group 2 with highest severity, thus the hypothesis Ho 29(5) is rejected.

Ho 29(6): There is significant difference in identification of letter size between normal control (group7) and group 3 with mild severity, thus the hypothesis Ho 29(6) is rejected.
**Ho 29(7):** There is significant difference in **identification of letter size** between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 29(7) is rejected.

**Ho 29(8):** There is significant difference in **identification of letter size** between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 29(8) is rejected.

**Ho 29(9):** There is significant difference in **identification of letter size** between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 29(9) is rejected.

**Ho 29(10):** There is significant difference in **identification of letter size** between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 29(10) is rejected.

**Ho 29(11):** There is significant difference in **identification of letter size** between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 29(11) is rejected.

**Ho 29(12):** There is significant difference in **identification of letter size** between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 29(12) is rejected.

**Ho 29(13):** There is significant difference in **identification of letter size** between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 29(13) is rejected.

**Ho 29(14):** There is no significant difference in **identification of letter size** between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 29(14) is accepted.

**Ho 29(15):** There is significant difference in **identification of letter size** between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 29(15) is rejected.

**Ho 30(1):** There is significant difference in **letter font perception** between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 30(1) is rejected.

**Ho 30(2):** There is no significant difference in **letter font perception** between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 30(2) is accepted.

**Ho 30(3):** There is no significant difference in **letter font perception** between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 30(3) is accepted.
**Ho 30(4):** There is significant difference in letter font perception between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 30(4) is rejected.

**Ho 30(5):** There is no significant difference in letter font perception between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 30(5) is accepted.

**Ho 30(6):** There is significant difference in letter font perception between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 30(6) is rejected.

**Ho 30(7):** There is significant difference in letter font perception between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 30(7) is rejected.

**Ho 30(8):** There is significant difference in letter font perception between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 30(8) is rejected.

**Ho 30(9):** There is no significant difference in letter font perception between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 30(9) is accepted.

**Ho 30(10):** There is significant difference in letter font perception between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 30(10) is rejected.

**Ho 30(11):** There is significant difference in letter font perception between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 30(11) is rejected.

**Ho 30(12):** There is significant difference in letter font perception between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 30(12) is rejected.

**Ho 30(13):** There is significant difference in letter font perception between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 30(13) is rejected.

**Ho 30(14):** There is significant difference in letter font perception between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 30(14) is rejected.
Ho 30(15): There is significant difference in letter font perception between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 30(15) is rejected.

Ho 31(1): There is no significant difference in calculation task performance between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 31(1) is accepted.

Ho 31(2): There is no significant difference in calculation task performance between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 31(2) is accepted.

Ho 31(3): There is no significant difference in calculation task performance between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 31(3) is accepted.

Ho 31(4): There is significant difference in calculation task performance between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 31(4) is rejected.

Ho 31(5): There is no significant difference in calculation task performance between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 31(5) is accepted.

Ho 31(6): There is significant difference in calculation task performance between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 31(6) is rejected.

Ho 31(7): There is no significant difference in calculation task performance between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 31(7) is accepted.

Ho 31(8): There is no significant difference in calculation task performance between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 31(8) is accepted.

Ho 31(9): There is no significant difference in calculation task performance between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 31(9) is accepted.

Ho 31(10): There is significant difference in calculation task performance between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 31(10) is rejected.
**Ho 31(11):** There is significant difference in calculation task performance between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 31(11) is rejected.

**Ho 31(12):** There is no significant difference in calculation task performance between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 31(12) is accepted.

**Ho 31(13):** There is no significant difference in calculation task performance between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 31(13) is accepted.

**Ho 31(14):** There is significant difference in calculation task performance between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 31(14) is rejected.

**Ho 31(15):** There is significant difference in calculation task performance between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 31(15) is rejected.

**Ho 32(1):** There is no significant difference in single number recognition between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 32(1) is accepted.

**Ho 32(2):** There is no significant difference in single number recognition between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 32(2) is accepted.

**Ho 32(3):** There is no significant difference in single number recognition between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 32(3) is accepted.

**Ho 32(4):** There is no significant difference in single number recognition between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 32(4) is accepted.

**Ho 32(5):** There is significant difference in single number recognition between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 32(5) is rejected.

**Ho 32(6):** There is no significant difference in single number recognition between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 32(6) is accepted.
**Ho 32(7):** There is no significant difference in **single number recognition** between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 32(7) is accepted.

**Ho 32(8):** There is no significant difference in **single number recognition** between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 32(8) is accepted.

**Ho 32(9):** There is no significant difference in **single number recognition** between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 32(9) is accepted.

**Ho 32(10):** There is significant difference in **single number recognition** between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 32(10) is rejected.

**Ho 32(11):** There is no significant difference in **single number recognition** between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 32(11) is accepted.

**Ho 32(12):** There is significant difference in **single number recognition** between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 32(12) is rejected.

**Ho 32(13):** There is significant difference in **single number recognition** between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 32(13) is rejected.

**Ho 32(14):** There is significant difference in **single number recognition** between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 32(14) is rejected.

**Ho 32(15):** There is significant difference in **single number recognition** between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 32(15) is rejected.

**Ho 33(1):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 33(1) is accepted.

**Ho 33(2):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 33(2) is accepted.
**Ho 33(3):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 33(3) is accepted.

**Ho 33(4):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 33(4) is accepted.

**Ho 33(5):** There is significant difference in **consecutive number recognition** between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 33(5) is rejected.

**Ho 33(6):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 33(6) is accepted.

**Ho 33(7):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 33(7) is accepted.

**Ho 33(8):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 33(8) is accepted.

**Ho 33(9):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 33(9) is accepted.

**Ho 33(10):** There is significant difference in **consecutive number recognition** between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 33(10) is rejected.

**Ho 33(11):** There is significant difference in **consecutive number recognition** between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 33(11) is rejected.

**Ho 33(12):** There is no significant difference in **consecutive number recognition** between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 33(12) is accepted.

**Ho 33(13):** There is significant difference in **consecutive number recognition** between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 33(13) is rejected.
**Ho 33(14):** There is no significant difference in *consecutive number recognition* between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 33(14) is accepted.

**Ho 33(15):** There is significant difference in *consecutive number recognition* between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 33(15) is rejected.

**Ho 34(1):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 34(1) is accepted.

**Ho 34(2):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 34(2) is accepted.

**Ho 34(3):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 34(3) is accepted.

**Ho 34(4):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 34(4) is accepted.

**Ho 34(5):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 34(5) is accepted.

**Ho 34(6):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 34(6) is accepted.

**Ho 34(7):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 34(7) is accepted.

**Ho 34(8):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 34(8) is accepted.

**Ho 34(9):** There is no significant difference in *figure rotation task performance* between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 34(9) is accepted.
**Ho 34(10):** There is no significant difference in **figure rotation task performance** between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 34(10) is accepted.

**Ho 34(11):** There is no significant difference in **figure rotation task performance** between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 34(11) is accepted.

**Ho 34(12):** There is no significant difference in **figure rotation task performance** between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 34(12) is accepted.

**Ho 34(13):** There is no significant difference in **figure rotation task performance** between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 34(13) is accepted.

**Ho 34(14):** There is significant difference in **figure rotation task performance** between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 34(14) is rejected.

**Ho 34(15):** There is significant difference in **figure rotation task performance** between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 34(15) is rejected.

**Ho 35(1):** There is no significant difference in **colour recognition task performance** between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 35(1) is accepted.

**Ho 35(2):** There is no significant difference in **colour recognition task performance** between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 35(2) is accepted.

**Ho 35(3):** There is no significant difference in **colour recognition task performance** between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 35(3) is accepted.

**Ho 35(4):** There is no significant difference in **colour recognition task performance** between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 35(4) is accepted.

**Ho 35(5):** There is no significant difference in **colour recognition task performance** between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 35(5) is accepted.
Ho 35(6): There is no significant difference in colour recognition task performance between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 35(6) is accepted.

Ho 35(7): There is no significant difference in colour recognition task performance between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 35(7) is accepted.

Ho 35(8): There is no significant difference in colour recognition task performance between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 35(8) is accepted.

Ho 35(9): There is no significant difference in colour recognition task performance between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 35(9) is accepted.

Ho 35(10): There is no significant difference in colour recognition task performance between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 35(10) is accepted.

Ho 35(11): There is no significant difference in colour recognition task performance between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 35(11) is accepted.

Ho 35(12): There is no significant difference in colour recognition task performance between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 35(12) is accepted.

Ho 35(13): There is no significant difference in colour recognition task performance between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 35(13) is accepted.

Ho 35(14): There is significant difference in colour recognition task performance between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 35(14) is rejected.

Ho 35(15): There is no significant difference in colour recognition task performance between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 35(15) is accepted.

Ho 36(1): There is no significant difference in sound recognition task performance between normal control (group 7) and group 1 with mild severity, thus the hypothesis Ho 36(1) is accepted.
**Ho 36(2):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 1 with moderate severity, thus the hypothesis Ho 36(2) is accepted.

**Ho 36(3):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 2 with mild severity, thus the hypothesis Ho 36(3) is accepted.

**Ho 36(4):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 2 with moderate severity, thus the hypothesis Ho 36(4) is accepted.

**Ho 36(5):** There is significant difference in **sound recognition task performance** between normal control (group 7) and group 2 with highest severity, thus the hypothesis Ho 36(5) is rejected.

**Ho 36(6):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 3 with mild severity, thus the hypothesis Ho 36(6) is accepted.

**Ho 36(7):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 3 with moderate severity, thus the hypothesis Ho 36(7) is accepted.

**Ho 36(8):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 3 with highest severity, thus the hypothesis Ho 36(8) is accepted.

**Ho 36(9):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 4 with mild severity, thus the hypothesis Ho 36(9) is accepted.

**Ho 36(10):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 4 with moderate severity, thus the hypothesis Ho 36(10) is accepted.

**Ho 36(11):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 4 with highest severity, thus the hypothesis Ho 36(11) is rejected.

**Ho 36(12):** There is no significant difference in **sound recognition task performance** between normal control (group 7) and group 5 with mild severity, thus the hypothesis Ho 36(12) is accepted.
**Ho 36(13):** There is no significant difference in *sound recognition task performance* between normal control (group 7) and group 6 with mild severity, thus the hypothesis Ho 36(13) is accepted.

**Ho 36(14):** There is no significant difference in *sound recognition task performance* between normal control (group 7) and group 6 with moderate severity, thus the hypothesis Ho 36(14) is accepted.

**Ho 36(15):** There is significant difference in *sound recognition task performance* between normal control (group 7) and group 6 with highest severity, thus the hypothesis Ho 36(15) is rejected.

**Ho 37:** there is no significant difference in performance of *reading difficulty group* among different categories among WM task performances, thus Ho 37 is accepted.

**Ho 38 (1):** there is no significant difference in performance of *reading difficulty group* between reading related WM task and writing related WM task, thus Ho 38 (1) is accepted.

**Ho 38 (2):** there is no significant difference in performance of *reading difficulty group* between reading related WM task and arithmetic related WM task, thus Ho 38 (2) is accepted.

**Ho 38 (3):** there is no significant difference in performance of *reading difficulty group* between reading related WM task and WM task not related to academic skills, thus Ho 38 (3) is accepted.

**Ho 38 (4):** there is no significant difference in performance of *reading difficulty group* between writing related WM task and arithmetic related WM task, thus Ho 38 (4) is accepted.

**Ho 38 (5):** there is no significant difference in performance of *reading difficulty group* between writing related WM task and WM task not related to academic skills, thus Ho 38 (5) is accepted.

**Ho 38 (6):** there is no significant difference in performance of *reading difficulty group* between arithmetic related WM task and WM task not related to academic skills, thus Ho 38 (6) is accepted.

**Ho 39:** there is no significant difference in performance of *writing difficulty group* among different categories among WM task performances, thus Ho 39 is accepted.

**Ho 40 (1):** there is no significant difference in performance of *writing difficulty group* between reading related WM task and writing related WM task, thus Ho 40 (1) is accepted.
**Ho 40 (2):** there is no significant difference in performance of writing difficulty group between reading related WM task and arithmetic related WM task, thus Ho 40 (2) is accepted.

**Ho 40 (3):** there is no significant difference in performance of writing difficulty group between reading related WM task and WM task not related to academic skills, thus Ho 40 (3) is accepted.

**Ho 40 (4):** there is no significant difference in performance of writing difficulty group between writing related WM task and arithmetic related WM task, thus Ho 40 (4) is accepted.

**Ho 40 (5):** there is no significant difference in performance of writing difficulty group between writing related WM task and WM task not related to academic skills, thus Ho 40 (5) is accepted.

**Ho 40 (6):** there is no significant difference in performance of writing difficulty group between arithmetic related WM task and WM task not related to academic skills, thus Ho 40 (6) is accepted.

**Ho 41:** there is no significant difference in performance of reading and writing difficulty group among different categories among WM task performances, thus Ho 41 is accepted.

**Ho 42 (1):** there is no significant difference in performance of reading and writing difficulty group between reading related WM task and writing related WM task, thus Ho 42 (1) is accepted.

**Ho 42 (2):** there is no significant difference in performance of reading and writing difficulty group between reading related WM task and arithmetic related WM task, thus Ho 42 (2) is accepted.

**Ho 42 (3):** there is no significant difference in performance of reading and writing difficulty group between reading related WM task and WM task not related to academic skills, thus Ho 42 (3) is accepted.

**Ho 42 (4):** there is no significant difference in performance of reading and writing difficulty group between writing related WM task and arithmetic related WM task, thus Ho 42 (4) is accepted.

**Ho 42 (5):** there is no significant difference in performance of reading and writing difficulty group between writing related WM task and WM task not related to academic skills, thus Ho 42 (5) is accepted.
Ho 42 (6): there is no significant difference in performance of reading and writing difficulty group between arithmetic related WM task and WM task not related to academic skills, thus Ho 42 (6) is accepted.

Ho 43: there is no significant difference in performance of reading, writing and arithmetic difficulty group among different categories among WM task performances, thus Ho 43 is accepted.

Ho 44 (1): there is no significant difference in performance of reading, writing and arithmetic difficulty group between reading related WM task and writing related WM task, thus Ho 44 (1) is accepted.

Ho 44 (2): there is no significant difference in performance of reading, writing and arithmetic difficulty group between reading related WM task and arithmetic related WM task, thus Ho 44(2) is accepted.

Ho 44 (3): there is no significant difference in performance of reading, writing and arithmetic difficulty group between reading related WM task and WM task not related to academic skills, thus Ho 44 (3) is accepted.

Ho 44 (4): there is no significant difference in performance of reading, writing and arithmetic difficulty group between writing related WM task and arithmetic related WM task, thus Ho 44 (4) is accepted.

Ho 44 (5): there is no significant difference in performance of reading, writing and arithmetic difficulty group between writing related WM task and WM task not related to academic skills, thus Ho 44 (5) is accepted.

Ho 44 (6): there is no significant difference in performance of reading, writing and arithmetic difficulty group between arithmetic related WM task and WM task not related to academic skills, thus Ho 44 (6) is accepted.

Ho 45: there is no significant difference in performance of attention deficit group with learning difficulty among different categories among WM task performances, thus Ho 45 is accepted.

Ho 46 (1): there is no significant difference in performance of attention deficit group with learning difficulty between reading related WM task and writing related WM task, thus Ho 46 (1) is accepted.

Ho 46 (2): there is no significant difference in performance of attention deficit group with learning difficulty between reading related WM task and arithmetic related WM task, thus Ho 46 (2) is accepted.
**Ho 46 (3):** there is no significant difference in performance of **attention deficit group with learning difficulty** between reading related WM task and WM task not related to academic skills, thus Ho 46 (3) is accepted.

**Ho 46 (4):** there is no significant difference in performance of **attention deficit group with learning difficulty** between writing related WM task and arithmetic related WM task, thus Ho 46 (4) is accepted.

**Ho 46 (5):** there is no significant difference in performance of **attention deficit group with learning difficulty** between writing related WM task and WM task not related to academic skills, thus Ho 46 (5) is accepted.

**Ho 46 (6):** there is no significant difference in performance of **attention deficit group with learning difficulty** between arithmetic related WM task and WM task not related to academic skills, thus Ho 46 (6) is accepted.

**Ho 47:** there is no significant difference in performance of **learning difficulty group associated with low intelligence** among different categories among WM task performances, thus Ho 47 is accepted.

**Ho 48 (1):** there is no significant difference in performance of **learning difficulty group associated with low intelligence** between reading related WM task and writing related WM task, thus Ho 48 (1) is accepted.

**Ho 48 (2):** there is no significant difference in performance of **learning difficulty group associated with low intelligence** between reading related WM task and arithmetic related WM task, thus Ho 48 (2) is accepted.

**Ho 48 (3):** there is no significant difference in performance of **learning difficulty group associated with low intelligence** between reading related WM task and WM task not related to academic skills, thus Ho 48 (3) is accepted.

**Ho 48 (4):** there is no significant difference in performance of **learning difficulty group associated with low intelligence** between writing related WM task and arithmetic related WM task, thus Ho 48 (4) is accepted.

**Ho 48 (5):** there is no significant difference in performance of **learning difficulty group associated with low intelligence** between writing related WM task and WM task not related to academic skills, thus Ho 48 (5) is accepted.

**Ho 48 (6):** there is no significant difference in performance of **learning difficulty group associated with low intelligence** between arithmetic related WM task and WM task not related to academic skills, thus Ho 48 (6) is accepted.
**Ho 49:** there is significant difference in performance of normal control group among different categories among WM task performances, thus Ho 49 is rejected.

**Ho 50 (1):** there is no significant difference in performance of normal control group between reading related WM task and writing related WM task, thus Ho 50 (1) is accepted.

**Ho 50 (2):** there is no significant difference in performance of normal control group between reading related WM task and arithmetic related WM task, thus Ho 50 (2) is accepted.

**Ho 50 (3):** there is no significant difference in performance of normal control group between reading related WM task and WM task not related to academic skills, thus Ho 50 (3) is accepted.

**Ho 50 (4):** there is significant difference in performance of normal control group between writing related WM task and arithmetic related WM task, thus Ho 50 (4) is rejected.

**Ho 50 (5):** there is significant difference in performance of normal control group between writing related WM task and WM task not related to academic skills, thus Ho 50 (5) is rejected.

**Ho 50 (6):** there is no significant difference in performance of normal control group between arithmetic related WM task and WM task not related to academic skills, thus Ho 50 (6) is accepted.

**Ho 51:** There is significant difference in working memory task performance of SLD group between pre and post WM training session, thus Ho 51 is rejected.

**Ho 52:** There is significant difference in learning scores of SLD group between pre and post WM training session, thus Ho 52 is rejected.