METHODS

Using the purposive sampling procedure, the total number of sample taken for the age group 13 - 19 years, 20 - 40 years and 40 - 75+ years were 1000. 13 – 19 years of youth were from the classes 8th to graduation level. It includes the students from the schools and universities of Lucknow, Kanpur and Rajasthan. 20 – 40 years of people were from the post graduation level including the working people from the field of engineering, doctors, bankers etc. 40+ - 75 + years of people were engaged into different jobs, business, few were retired people and some were from the old age homes as well.

Under the age group of 13 – 19 years out of 1000, total 946 appeared for the test. Amongst them total number males were 483 and that of females where 463 and rest 54 were not present. I divided the males and females in equal ratios. Amongst the participants, few were learning music, many of them just had interest in listening to different types of music, few even had no inclination towards music and many were from different subjects like commerce, science, sports and arts as well. Therefore this sampling is supposed to be the purposive sampling.

Under the age group of 20 – 40 years out of 1000 total 946 appeared for the test. Amongst them total number of males were 463 and that of females where 483 and rest 54 were not present. We took equal numbers of males and females for this age group. They were students of graduation level, some were into jobs and professionals like teachers, doctors, or self employed etc.

Under the age group of 40 - 75+ years out of 1000 total 900 appeared for the test. Amongst them total number of males were 468 and that of females where 432 and
rest 100 were not present. I took 100 each students of post graduation level i.e. 100 from pg first year and 100 from pg second year total 200 students and 200 students of different professional courses. 300 people were from the different jobs including that of bankers doctors teachers (both related to music and non music background), IAS officers policemen etc. And 200 other were the people who were either living in old age homes or were single in their old age or are forced to live isolated or lonely.

Objectives:

4. To find that there is or there isn’t any significant association in gender and personality for all music types and for all age groups.
5. To find that does liking for any type of music will have same type of effect on personality irrespective of gender
6. To compare average score obtained by rural and urban persons according to their personality traits and music inclinations for various age groups.

To find the answers for the above planned aims every student were given the sets of questionnaire to answer. To get the personality of each, they were given ‘TIPI’: “TEN ITEM PERSONALITY INVENTORY” and next to know their favorite music style or genres they have been give ‘STOMP’: “SHORT TEST OF MUSIC PREFERENCE”.

Further data have been elaborated with graphical presentation for more lucid view of the analysis for the broad picture of acceptance of our hypothesis. The purpose of graphical presentation of data is to give a visual of numbers by using various charts or bar diagram.

On getting the entire solved questionnaire, we used statistical process using SPSS – 16.0 where we used Chi-Square – \[ x^2_e = \sum (O_i - E_i)^2 / E_i \] to see the association between personality and music types including the gender criteria as 5% level of significance. This has been used for statistical hypothesis. It’s been used to compare observed data with data we would expect to obtain according to the specific hypothesis.
Above mentioned objective and methods would remain the same for the gender analysis between the rest of the age groups i.e. 13 - 19 years, 20 - 40 years and 40 - 75+ years. Each analysis of male and female will be explained individually through tabulation form along with the graphical presentation. Towards the end of analysis it would be concluded with the result for the planned aim of each gender in context to age group and personality.

**DESCRIPTIVE ANALYSIS:**

I. First analysis is on all the four types of music along with personality and gender between the age group of 13 – 19 years. So Individual analysis of each genres or music types for Adolescents (13-19 years) are as follows:

**C. ENERGETIC AND RHYTHMIC:**

The first graphical representation has been done with students having inclination towards Energetic and Rhythmic music type between the age group of 13-19 years.

**H01** – There is an association between gender and music inclination in Energetic and Rhythmic music type.

**H1** – There is no association between gender and music inclination in Energetic and Rhythmic music type.

![Energetic & Rhythmic Chart]

A)-Fig.7

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According to the above graph, the personality trait that’s showing its inclination more are *Openness and Extraversion* in comparison with other three personality traits i.e. Agreeableness, Conscientiousness and Neuroticism. But amongst these two traits if we see, it’s very clearly evident that the number of males and females with personality trait of *Extraversion* is more inclined towards *Energetic and Rhythmic music types*.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = .169 and corresponding p – value = .997

Since p value is greater .05, which implies that there is no significant association between gender and personality for Energetic and Rhythmic music types.

**D. INTENSE AND REBELLIOUS:**

The second graphical representation has been done with the students having inclination towards Intense and Rebellious music type between the age group of 13-19 years.

**H₀₂** – There is an association between gender and music inclination in Intense and Rebellious music type.

**H₁₂** – There is no association between gender and music inclination in Intense and Rebellious music type.
According to the above individual analysis of Intense and Rebellious music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with personality trait of Openness to new experience is inclined towards Intense and Rebellious music type in comparison with other personality traits in this music genre.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = 4.368 and corresponding p – value = .359

Since p value is greater .05, which implies that there is no significant association between gender and personality for Intense and Rebellious music type.

E. REFLECTION AND COMPLEX:

The third graphical representation has been done with the students having inclination towards Reflection and Complex music type between the age group of 13-19 years.

H$_{03}$ – There is an association between gender and music inclination in Reflection and Complex music type.
**H3** – There is no association between gender and music inclination in Reflection and Complex music type.

![Reflection & Complex](image_url)

In the graph above we could see variations in males and females inclination towards this music type. Students with the personality traits of Openness, Agreeableness Conscientiousness have shown more inclination towards Reflection and Complex music type than Extraversion and Neuroticism. But according to the above individual analysis of Reflection and Complex music type, it shows that amongst the 1000 people who appeared for the test, the number males and females with personality trait of *Agreeableness and Conscientiousness is inclined towards Reflection and Complex music type.*

Now to see the association at 5% level of significance we applied $X^2$ – Test.

To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = .118 and corresponding p – value = .998

Since p value is greater .05, which implies that there is no significant association between gender and personality for Reflection and Complex music type.
F. UPBEAT AND CONVENTIONAL

The third graphical representation has been done with the students having inclination towards Upbeat and Conventional music type music type between the age group of 13-19 years.

H04 – There is an association between gender and music inclination in Upbeat and Conventional music type.

H4 – There is no association between gender and music inclination in Upbeat and Conventional music type.

As per the graph shown above, the number of male and female students with personality trait of Openness is observed to be having equal ratio towards inclination of this music type. The other personality traits are showing slight variation in ratio in inclination of male and female students.

According to the above individual analysis of Upbeat and Conventional music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with personality trait of Agreeableness is inclined towards Upbeat and Conventional music type.
Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = 5.121 and corresponding p – value = .275

Since p value is greater .05, which implies that there is no significant association between gender and personality for Upbeat and Conventional music types.

**Conclusion –**

According to the analysis of music genres on personality between the age groups of 13-19 years it could be concluded that students are more inclined towards Intense and Rebellious music with personality traits of Openness to new experience. Therefore from the above graphs it could be concluded that between 13 – 19 years, students are found to have Agreeableness and Openness to new experience personality traits and they are more inclined towards intense and rebellious music type.

**DESCRIPTIVE ANALYSIS:**

II. Second analysis is on all the four types of music along with personality and gender with adults between the age group of 20 – 40 years. So Individual analysis of each genres or music types in Adulthood (20-40 years) are as follows:

A. **ENERGETIC AND RHYTHMIC:**

The first graphical representation has been done with adults having inclination towards Energetic and Rhythmic music type between the age group of 20 -40 years.

**H01** – There is an association between gender and music inclination in Energetic and Rhythmic music type.

**H1** – There is no association between gender and music inclination in Energetic and Rhythmic music type.
According to the above graph the personality trait, that shows its inclination more towards Energetic and Rhythmic music type is *Agreeableness*, in comparison with other four personality traits i.e. Openness, Conscientiousness, Extraversion and Neuroticism. Therefore, it is very clearly evident that the number of males and females with personality trait of Agreeableness is more inclined towards this music type.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = .839 and corresponding $p$ – value = .933

Since $p$ value is greater .05, which implies that there is no significant association between gender and personality for Energetic and Rhythmic music types.

**B. INTENSE AND REBellIOUS:**

The second graphical representation has been done with the adults having inclination towards Intense and Rebellious music type between the age group of 20-40 years.

**H02** – There is an association between gender and music inclination in Intense and Rebellious music type.
**H2** – There is no association between gender and music inclination in Intense and Rebellious music type.

![Graph](image)

According to the above individual analysis of Intense and Rebellious music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with *personality trait of Neuroticism is inclined towards Intense and Rebellious music type* in comparison with other personality traits in this music type.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = 4.438 and corresponding p – value = .350

Since p value is greater .05, which implies that there is no significant association between gender and personality for this music types.

**C. REFLECTION AND COMPLEX**

The third graphical representation has been done with the adults having inclination towards Reflection and Complex music type music type between the age group of 20-40 years.

**H03** – There is an association between gender and music inclination in Reflection and Complex music type.
**H3** – There is no association between gender and music inclination in Reflection and Complex music type.

![Graph](image)

In the graph above we could see variations in males and females inclination towards this music type. Adults with the *personality traits of Extraversion, Neuroticism and Conscientiousness have shown more inclination towards Reflection and Complex music type* than Openness and Agreeableness. But according to the above individual analysis of Reflection and Complex music type it shows that amongst the 1000 people who appeared for the test, the number males and females with *personality trait of Neuroticism is more inclined towards this music type*, though number of males are same in conscientiousness and neuroticism.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = 6.411 and corresponding $p$ – value = .170

Since $p$ value is greater .05, which implies that there is no significant association between gender and personality for this music types.
D. UPBEAT AND CONVENTIONAL

The third graphical representation has been done with the adults having inclination towards Upbeat and Conventional music type music type between the age group of 20-40 years.

**H₀₄** – There is an association between gender and music inclination in Upbeat and Conventional music type.

**H₁₄** – There is no association between gender and music inclination in Upbeat and Conventional music type.

![UPBEAT & CONVENTIONAL](image)

As per the graph shown above, the number of male and female with personality trait of Openness and Conscientiousness observed to be having equal ratio towards inclination of this music type. The other personality traits are showing slight variation in ratio of inclination of male and female students.

According to the above individual analysis of Upbeat and Conventional music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with *personality trait of Extraversion is inclined towards Upbeat and Conventional music type.*
Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = 4.383 and corresponding p – value = .357

Since p value is greater .05, which implies that there is no significant association between gender and personality for this music types.

**Conclusion –**

*According to the analysis of music genres on personality between the age group of 20 – 40 years, it is found that students or to say adults are more inclined towards Upbeat and conventional music type with personality trait of Extraversion.* Though, males and females with slight variation in ratio to the previous one but equal ratio on the inclination towards Rhythmic and Energetic music type with personality trait of Agreeableness.

*Therefore it could be concluded that males and females under this age group i.e. 20 – 40 years are more inclined towards the Upbeat and Conventional music type with personality trait of Extraversion.*

**DESCRIPTIVE ANALYSIS:**

**III.** Second analysis is on all the four types of music along with personality and gender with the people of age group of 40+ – 75+ years. So Individual analysis of each genres or music types in *Adulthood and Seniors (40 - 75+ years)* are as follows:

**A. ENERGETIC AND RHYTHMIC:**

The first graphical representation has been done with the people having inclination towards Energetic and Rhythmic music type between the age group of 40+ -75+ years.

*H01 – There is an association between gender and music inclination in Energetic and Rhythmic music type.*
**H1** – There is no association between gender and music inclination in Energetic and Rhythmic music type.

Above graph shows a very less variation in number of male and female with 5 personality traits, inclination towards this music type.

But according to the above individual analysis of Energetic and Rhythmic it shows that amongst the 1000 adults who appeared for the test, the number of males and females with **personality trait of Agreeableness is inclined towards Energetic and Rhythmic music type.**

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = .201 and corresponding p – value = .995

Since p value is greater .05, which implies that there is no significant association between gender and personality for this music types.
**B. INTENSE AND REBELLIOUS:**

The second graphical representation has been done with the people having inclination towards Intense and Rebellious music type between the age group of 40+ - 75+ years.

**H02** – There is an association between gender and music inclination in Intense and Rebellious music type.

**H2** – There is no association between gender and music inclination in Intense and Rebellious music type.

According to the above graph, the ratio of males are more as compared to females except the Conscientiousness personality trait, where ratio of females is slightly higher than that of males who have liking for Intense and Rebellious music type.

According to the above individual analysis of Intense and Rebellious music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with *personality trait of Agreeableness is more inclined towards Intense and Rebellious music type.*
Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = 2.066 and corresponding $p$ – value = .724

Since $p$ value is greater .05, which implies that there is no significant association between gender and personality for this music types.

C. **REFLECTION AND COMPLEX:**

The third graphical representation has been done with the seniors again having inclination towards Reflection and Complex music type between the age group of 40+ -75+ years.

**H$_0$3** – There is an association between gender and music inclination in Reflection and Complex music type.

**H$_3$** – There is no association between gender and music inclination in Reflection and Complex music type.

A)-Fig.17
According to above graph, the number of males and females are less with personality traits of: Conscientiousness, Extraversion and Neuroticism as compared to Openness and Agreeableness.

According to the above individual analysis of Reflection and Complex music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with personality trait of Agreeableness is inclined towards Reflection and Complex music type.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = .118 and corresponding p – value = .998

Since p value is greater .05, which implies that there is no significant association between gender and personality for this music types.

D. **UPBEAT AND CONVENTIONAL**:

The fourth graphical representation has been done with the people having inclination towards Upbeat and Conventional music type between the age group of 40+ -75+ years.

**H04**– There is an association between gender and music inclination in Upbeat and Conventional music type.

**H4** – There is no association between gender and music inclination in Upbeat and Conventional music type.
In the above graph, the number of males and females are less with personality traits of: Agreeableness, Extraversion and Neuroticism as compared to Openness and Conscientiousness.

According to the above individual analysis of Upbeat and Conventional music type it shows that amongst the 1000 people who appeared for the test, the number of males and females with personality trait of Conscientiousness is inclined towards this music type.

Now to see the association at 5% level of significance we applied $X^2$ – Test. To test the hypothesis between gender and music inclination, the value of $X^2$ obtained is reported below:

$X^2$ – value = .878 and corresponding p – value = .928

Since p value is greater .05, which implies that there is no significant association between gender and personality for this Upbeat and conventional music types.
Conclusion:

According to the above analysis of music genres on the personality between the age group of 40 - 75+ years, it is found that adults and seniors are more inclined towards Reflex and Complex music type with personality trait of Agreeableness; Though it is also observed that females with equal ratio in Reflex and Complex music type are also found inclined towards upbeat and conventional music type with personality trait of consciousness. Therefore it could be concluded that male and female under this age group are more inclined towards Reflex and Complex music type with personality trait of Agreeableness.

According to the above analysis based on $x^2$ - test, on age groups between 13 – 19 years, 20 - 40 years and 40 - 75+ years, there is found to be no significant association in gender and personality for all music types and for all age groups. Therefore it could be concluded that, liking for any type of music will have same type of reflection and effect on personality irrespective of gender.