Conclusion and Scope for further Research:

In this thesis we obtained an upper bound for the sum of two domination number and chromatic number and characterized the corresponding extremal graphs of order upto $2n - 7$ for any $n > 3$. Moreover we introduced a new domination parameter called complementary perfect triple connected domination number of the graph. The lower and upper bounds of the complementary perfect triple connected domination are obtained. The complementary perfect triple connected domination number for standard and various classes of the graphs are found and investigated many new results. Its relationship with other graph theoretical parameters has been discussed. Relationships between the new domination parameter with other graph theoretical parameter are still open for further investigation.

In addition to that we characterized the cubic graphs whose two domination number and chromatic number equals three.

The following problems are given for further investigation:

1) Characterize the graphs for which $\text{cptc}(G) = \chi(G)$

2) Characterize the graphs for which $\text{cptc}(G) = \gamma(G)$. 