CHAPTER VI

CONCLUSION AND SUGGESTION FOR FURTHER WORK

In this dissertation graphs without isolated vertices are proved to be E-Cordial which covers most of the graphs. Four classes of graphs

i) $G_1 = K_3$

(ii) $G_2 = K_{t,t}$ where $r \not\equiv 1 \pmod{4}$ is even.

(iii) $G_3 = K_{t,t} \cup K_{s,s}$ where $r+s \equiv 2 \pmod{4}$ and

(iv) $G_4 = nK_2$ where $n$ is even.

are proved to be uniformly E-Cordial. Any graph other than these four types is not uniformly E- Cordial. This determines the class of all uniformly E-Cordial graphs. Genuinely cordial graphs form a link between cordial and E-Cordial labelings. The class of all genuinely cordial stars is determined as $K_{1,r}$ where $r \not\equiv 1,2 \pmod{4}$. In cycles $C_3$ is proved to be genuinely cordial and $C_4$ is not genuinely cordial. As E-Cordial and uniformly E-Cordial graphs are discussed completely, it remains to study about genuinely Cordial labeling only. Hence it is an open problem to determine the class of all genuinely cordial graphs.