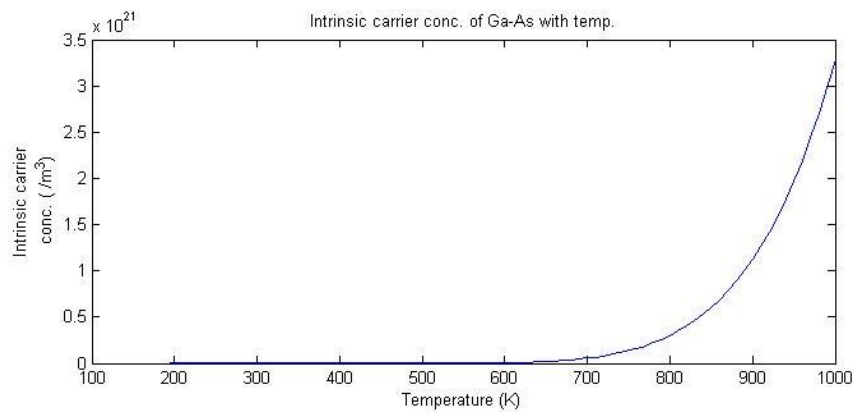
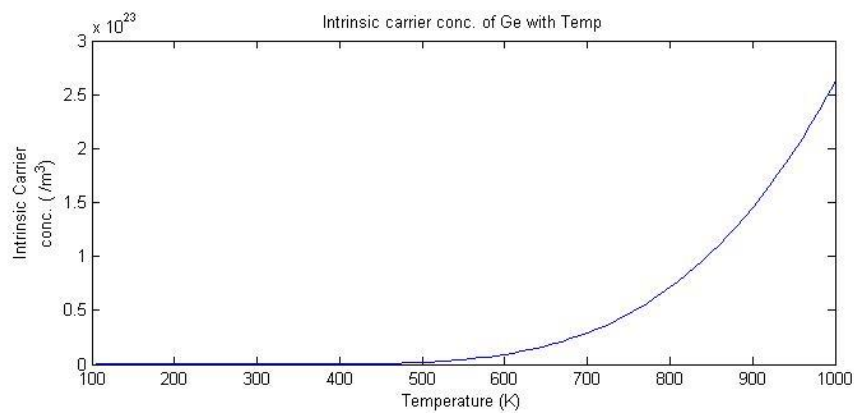
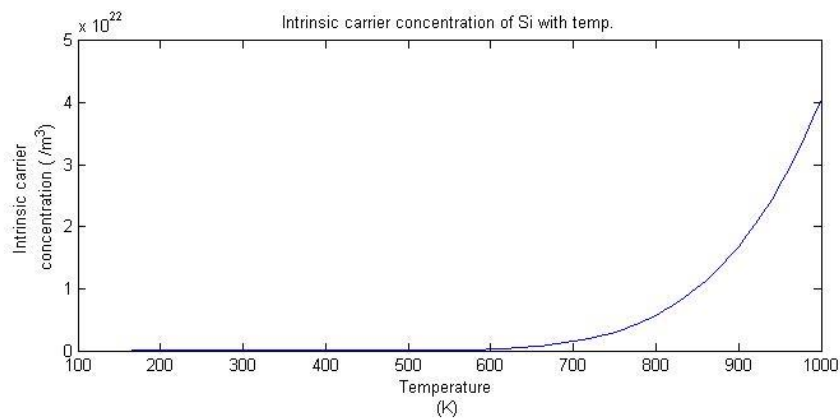
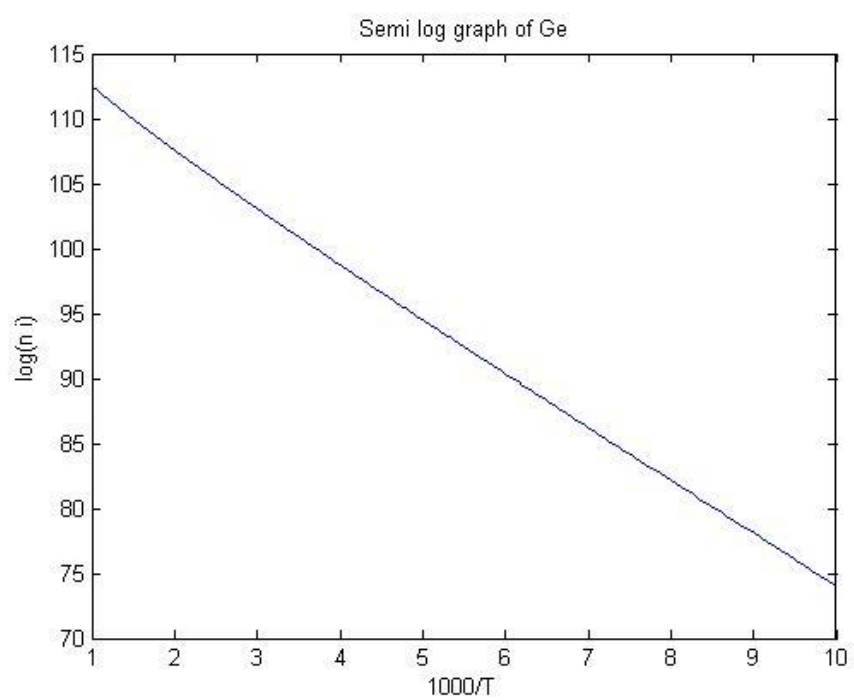
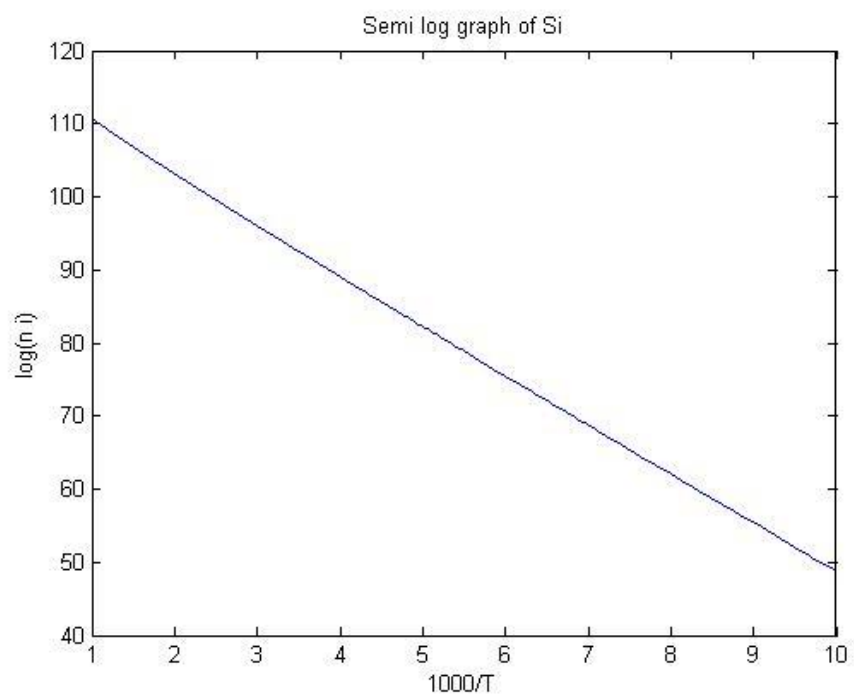
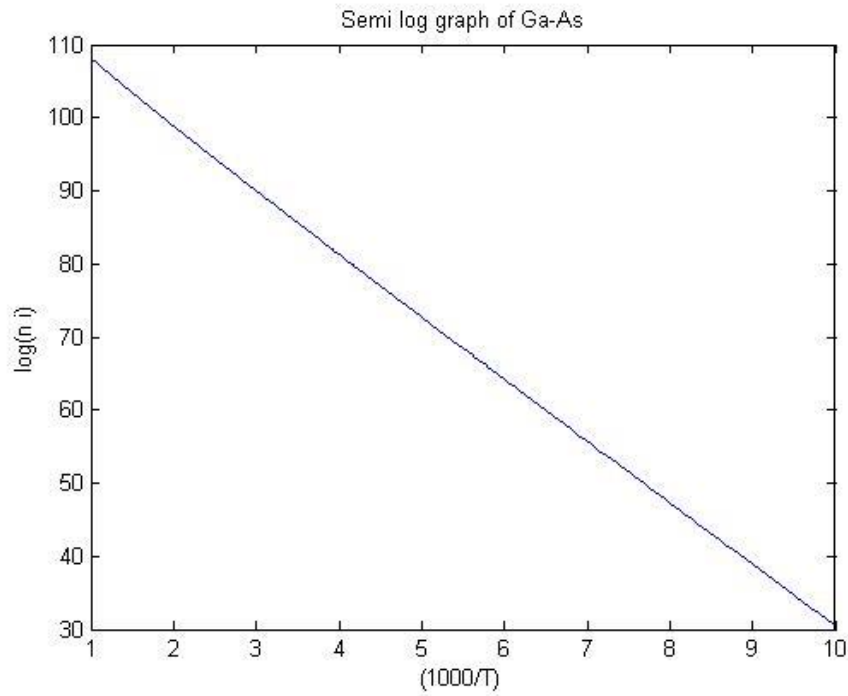


## EE221 Assignment 1 - Aravind Damacharla(13110029)

Q 8)







At a particular temperature the higher value of  $n_i$  shows that the  $E_g$  of the semi-conductor is higher than that the one having a lower value of  $n_i$  at the same temperature. So by observing these semi-log plot where the slope represents  $E_g$  we can conclude that the  $E_g$  order is:

Ge > Si > Ga-As.