Q1.) Find the time complexity for the following scenarios

a.) for(i=1;i<=n;i++)

for(j=i;i<=n;j++)

printf("Hi");

Ans) The time complexity of this nested for loop is O(n2).

b.) for(i=1;i<=n;i\*=3)

for(j=1;i<=n;j++)

printf("Hello");

Ans) The time complexity of this loop is O(nLogn).