## DSA assignment Day-1

1.) Find the time complexity for the following scenarios

```
a.) for(i=1;i<=n;i++)
       for(j=i;i \le n;j++)
            printf("Hi");
Answer:-
       j
1
       n
2
       n-1
3
       n-2
4
       n-3
Time complexity = n+(n-1)+(n-2)+....+3+2+1
                = n(n+1)/2
                =n^2
Therefore the time complexity is O(n^2)
```

The time complexity = O(nlogn)