**Assignment 1**

**1.) Find the time complexity for the following scenarios**

**a.) for(i=1;i<=n;i++) //O(n) \* O(n)**

**for(j=i;j<=n;j++) //O(n)**

**printf("Hi");**

*Ans:- O(n^2)*

**b.) for(i=1;i<=n;i\*=3) //O(n) \*O(log base 3 n)**

**for(j=1;j<=n;j++) //O(n)**

**printf("Hello");**

*Ans:- O(n log base 3 n)*