**Question 1**

Find the time complexity of the following code.

int a =1, b=1;

while(b<=n)

{

a++;

b+=a;

cout<< "HI Coders"<<endl;

}

**Solution**

The time complexity depends upon number of times the loop runs.

Here for any positive value of n loop will run for a factor of ‘n’ times.

So, time complexity is O(n).