**Question 1**

What is the time complexity T(n) for the following code snippet?

a = 1

b = 1

while(b <= n)

{

Highlighted text running the loop for n time.

Hence time taken is **O(n).**

    a += 1

    b += 1

    cout<<"Hi";

}

**Question 2**

Write the output for the following recursive code snippet for n = 3:

void fun(int n)

{

    if(n > 0)

    {

The Output of this function is :-

**3 2 1 1 2 3**

        cout<<n:

        fun(n - 1);

        cout<<n;

    }

}