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Date
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Assignment – Day 1

1)
```
a = 1
b = 1
while (b <= n)
{
a = a+1;
b = b+1;
cout << "Hi";
}
```

T(n) = ?

From the given sets of code, at first b is 1, the condition is true; therefore b = 1+1 = 2, which satisfies the condition as true, b = (n-1)+1, the condition is true.

b = n+1 = false

∴ The loop stops

∴ T(n) = O(n)

2] Write the output for the following recursive code snippet for n = 3

```
void fun(int n)
{
  if (n>0)
  {
    cout<<n;
    fun(n-1);
    cout<<n;
  }}
```

Output :

3 2 1

ASSIGNMENT - DAY 2

1) Find the output of the following code snippet

```
int i=0 , j=0
int *p = &i , *q = &j ;

q = p ;
*q = 2 ;
cout << i << " " << j ;
```

Answer:

q = p

∴ q storing address of i.

When

*q = 2 ,

∴ i storing 2

Ans : 2 0