

Assingment-5(RID:001, Madhur Jodhwani)

1. Write a recursive program which display below pattern.

Input : 5

Output : * * * * *

```
def Print(value):  
    i=0  
    if i != value:  
        print("*",end=" ")  
        value=value-1  
        Print(value)  
  
no=int(input())  
Print(no)
```

2. Write a recursive program which display below pattern.

Input : 5

Output : 1 2 3 4 5

```
i=1  
def NumsAscending(value):  
    global i  
    if i<=value:  
        print(i,end=" ")  
        i=i+1  
        NumsAscending(value)  
  
no=int(input())  
NumsAscending(no)
```

3. Write a recursive program which display below pattern.

Input : 5

Output : 5 4 3 2 1

```
i=0  
def PrintNumsD(value):  
    global i  
    if value!=i:  
        print(value,end=" ")
```

```
        value=value-1
        PrintNumsD(value)

no=int(input())
PrintNumsD(no)
```

4. Write a recursive program which accept number from user and return summation of its digits.

Input : 879

Output : 24

```
sum=0
def Sum(value):
    global sum
    if value==0:
        print(sum)
    if value!=0:
        sum=sum+(value%10)
        value=value//10
        Sum(value)

no=int(input())
Sum(no)
```

5. Write a recursive program which accept number from user and return its factorial.

Input : 5

Output : 120

```
fac=1
def Fact(value):
    global fac
    if value==0:
        print(fac)
    if value!=0:
        fac=fac*value
        value=value-1
        Fact(value)
```

```
no=int(input())  
Fact(no)
```