

## NUMBER SERIES

Program:

```
n=int(input("Enter number of terms:"))  
s=0  
for i in range(0,n):  
    s=s+2*i  
    print(s,end=" ")
```

Output:

Enter number of terms:10

0 2 6 12 20 30 42 56 72 90

## NUMBER SERIES

Program:

```
n=int(input("Enter a number of terms:"))
```

```
s=0
```

```
for i in range(1,n):
```

```
    if(i%2==0):
```

```
        s=(i**2)-2
```

```
        print(s,end=" ")
```

```
    else:
```

```
        s=(i**2)-1
```

```
        print(s,end=" ")
```

Output:

Enter a number of terms:10

0 2 8 14 24 34 48 62 80

## NUMBER PATTERN

Program:

```
for i in range(1,6):  
    print()  
    for j in range(1,i+1):  
        print(i,end=" ")
```

Output:

```
1  
2 2  
3 3 3  
4 4 4 4  
5 5 5 5 5
```

## PYRAMID PATTERN

Program:

```
for i in range(1,6):  
    print()  
    for j in range(1,i+1):  
        print("*",end=" ")
```

Output:

```
*  
  
* *  
  
* * *  
  
* * * *  
  
* * * * *
```

## DECIMAL TO BINARY

Program:

```
n=int(input("Enter a decimal number:"))
s=" "
while(n>0):
    r=n%2
    s=str(r)+s
    n=n//2
print(s)
```

Output:

Enter a decimal number:10

1010