PROGRAM:

\# Print Arithmetic series 1 4 7 10...

```
n=int(input('Enter number of terms : '))
i=0
a=1
while(i<n):
    print(a,end=',')
    i+=1
    a+=3
```

OUTPUT:

```
Enter number of terms : 10
1,4,7,10,13,16,19,22,25,28
```

PROGRAM:

Program to Find the sum of series $1^3+2^3+3^3+4^3.....+N^3$.

```python
n=int(input('Enter numeber of terms : '))
i=1
sum=0
while(i<=n):
    sum+=i**3
    i+=1
print('The sum is',sum)
```

OUTPUT:

```
Enter numeber of terms : 10
The sum is 3025
```

PROGRAM:

```python
n=int(input('Enter a number : '))
for i in range(1,n+1):
    for j in range(1,i+1):
        print(j,end=' ')
    print()
```

OUTPUT:

```
Enter a number : 5
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

PROGRAM:

```python
n=int(input('Enter number of rows : '))
a='*'
for i in range(n,0,-1):
    print(a*i,end=' ')
    print()
```

OUTPUT:

```
Enter number of rows : 5
*****
****
***
**
*
```

PROGRAM:

```python
# convert binary to decimal
n=int(input('Enter binary number : '))
s=0
i=0
while(n>0):
    r=n%10
    s+=r*(2**i)
    n//=10
    i+=1
print(s)
```

OUTPUT:

```
Enter binary number : 1010
10
```