EXP NO:4(A)

DATE:7/1/23

NUMBER SERIES:

PROGRAM CODE:

```
n=int(input("Enter the n value:"))
sum=0
for i in range(0,n+1):
    k=2
    for j in range(1,i+1):
        sum=sum+k
        k=k+2
    print(sum)
```

OUTPUT:

```
Enter the n value:5
0
2
8
20
40
70
```

EXP NO:4(B)

DATE:7/1/23

NUMBER SERIES:

PROGRAM CODE:

```
n=int(input("Enter the n value:"))
s=0
sum1=0
print("Series are",end=" ")
for i in range(0,n):
    s=s*10+1
    print(s,end=" ")
    sum1=sum1+s
print()
print("Series sum=",sum1)
```

OUTPUT:

Enter the n value:4

Series are 1 11 111 1111

Series sum= 1234

EXP NO:4(C)

DATE:7/1/23

NUMBER PATTERNS-INVERTED PYRAMID OF STAR

PROGRAM CODE:

```
rows=int(input("Enter number of rows:"))
for i in range(rows,0,-1):
    for j in range(0,i):
        print("*",end=" ")
    print("\n")
```

OUTPUT:

```
Enter number of rows:4
* * * *

* * *

* *

*
```

EXP NO:4(D)

DATE:7/1/23

NUMBER PATTERNS INVERTED PYRAMID PATTERN OF NUMBERS

PROGRAM CODE:

```
rows=int(input("Enter number of rows:"))
a=0
for i in range(rows,0,-1):
    a+=1
    for j in range(1,i+1):
        print(a,end=" ")
    print("\n")
```

OUTPUT:

```
Enter number of rows:5
1 1 1 1 1

2 2 2 2

3 3 3

4 4

5
```

EXP NO:4(E)

DATE:7/1/23

AMSTRONG NUMBER OR NOT

PROGRAM CODE:

```
n=int(input("Enter an num:"))
num=n
sum=0
while(n>0):
   rem=n%10
   sum=sum+(rem**3)
   n=n//10
if(sum==num):
   print(num,"Amstrong No")
else:
   print(num,"Not Amstrong No")
```

OUTPUT:

```
Enter an num:153
153 Amstrong No
```