EX NO:4(A) **NUMBER SERIES**

DATE:7.1.23

**AIM:** To find the number of series 0,2,6,12…..N.

**CODING:**

n=int(input("enter the range:"))

i=1

while i<=n:

print((i\*i)-i,end=" ")

i+=1

**OUTPUT:**

enter the range:20

0 2 6 12 20 30 42 56 72 90 110 132 156 182 210 240 272 306 342 380

EX NO:4(B) **NUMBER SERIES(2)**

DATE:7.1.23

**AIM:** To find the number series of 0,2,8,14….N.

**CODE:**

n=int(input("enter the range:"))

i=1

pr=0

while(i<=n):

if(i%2==0):

pr=pow(i,2)-2

print(pr,end=" ")

else:

pr=pow(i,2)-1

print(pr,end=" ")

i+=1

**OUTPUT:**

enter the range:10

0 2 8 14 24 34 48 62 80 98

EX NO:4(C) **SIMPLE NUMBER PATTERN USING FOR LOOP**

DATE:7.1.23

**AIM**:

To print number pattern.

**CODING:**

n=int(input("enter the n value:"))

for num in range(n+1):

for i in range(num):

print(num,end=" ")

print("\n")

**OUTPUT:**

Enter n value:5

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

EX NO:4(D) **SIMPLE HALF PYRAMID PATTERN**

DATE:7.1.23

**AIM:**

To print star pattern.

**CODING:**

n=int(input("enter n value:"))

for i in range(0,n):

print()

for i in range(0,i+1):

print("\*",end=" ")

**OUTPUT:**

enter n value:5

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

EX NO:4(E) **DECIMAL TO BINARY CONVERSION**

DATE:7.1.23

**AIM:**

To convert decimal to binary number.

**CODE:**

n=int(input("enter decimal value:"))

a=[]

while(n>0):

d=n%2

a.append(d)

n=n//2

a.reverse()

print("Binary equivalent is:")

for i in a:

print(i,end=" ")

**OUTPUT:**

enter decimal value:23

Binary equivalent is:

1 0 1 1 1