**EX.NO: 4**

**DATE:11/01/2023   
 Number series**

**Write a program to print Arithmetic series 1 4 7 10...**

**AIM:**

To write program for the given problem

**Source Code:**

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

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

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

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

sum=a+(i-1)\*d

print(sum,end=" ")

**OUTPUT:**

enter the value a:1

enter the value d:3

enter the value n:10

1 4 7 10 13 16 19 22 25 28

**EX.NO: 4**

**DATE:11/01/2023   
 Number series**

**Write a Program to Find the sum of series 1³+2³+3³+4³.....+N³.**

**AIM:**

To write program for the given problem

**Source Code:**

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

i=1

sum=0

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

sum=sum+(i\*\*3)

print("the sum of series :",sum)

**OUTPUT:**

enter the value:7

the sum of series :784

**EX.NO: 4**

**DATE:11/01/2023 Number Patterns :   
 Pyramid pattern of numbers  
 Let’s see how to print the following half pyramid pattern of numbers**

**AIM:**

To write program for the given problem

**Source Code:**

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

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

print()

for j in range(i):

print(j+1,end=" ")

**OUTPUT:**

enter the row:5

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

**EX.NO: 4**

**DATE:07/01/2023 Pyramid Patterns-**

**Downward half-Pyramid Pattern of Star**

**AIM:**

To write program for the given problem

**Source Code:**

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

for i in range(n,0,-1):

print()

for j in range(i):

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

**OUTPUT:**

enter the row:5

\* \* \* \* \*   
\* \* \* \*   
\* \* \*   
\* \*   
\*

**EX.NO: 4**

**DATE:11/01/2023 Convert binary to decimal number**

**AIM:**

To write program for the given problem

**Source Code:**

bin=int(input("enter the binary value:"))

i=0

sum=0

while(bin>0):

rem=bin%10

sum=sum+rem\*(2\*\*i)

i=i+1

bin=bin//10

print(sum)

**OUTPUT:**

enter the binary value:1000

8