EX.NO: 4

DATE:07/01/2023   
 I 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:07/01/2023   
 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:10**

**the sum of series :3025**

EX.NO: 4

DATE:07/01/2023 II. 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:**

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

EX.NO: 4

DATE:07/01/2023 III. 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:**

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

EX.NO: 4

DATE:07/01/2023 IV. 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:100

4