EX.NO: 4

DATE:11/01/2023   
 I(A) Number series

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

AIM:

To write program for the given problem

INPUT:

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   
 I(B) Number series

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

AIM**:**

To write program for the given problem

INPUT:

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:11/01/2004 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

INPUT:

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:11/01/2023 III. Pyramid Patterns-

Downward half-Pyramid Pattern of Star

AIM**:**

To write program for the given problem

INPUT**:**

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 IV. Convert binary to decimal number

AIM:

To write program for the given problem

INPUT:

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