EXP NO:4

I. Number series

Write a Program to Find the sum of series 2+4+6+8.....+N.

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

sum=0

i=0

while(i<=n):

print(i)

sum=sum+i

i=i+2

print(sum)

OUTPUT:

enter the value:15

0

2

4

6

8

10

12

14

56

>>>

2.Write a Program to Find the sum of series 1+11+111+1111.....+N.

SOURCE CODE:

n=int(input(“Enter the range of number:”))

sum=0

j=1

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

sum=sum+j

j=(j\*10)+1

print(sum)

OUTPUT:

Enter the range of number:5

12345

**3.Number Patterns - Inverted pyramid pattern of numbers**

rows=int(input("enter inverted pyramid pattern rows="))

print("inverted pyramid star pattern")

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

for j in range(0, rows - i):

print(end = ' ')

for k in range(0,i):

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

print()

enter inverted pyramid pattern rows=6

inverted pyramid star pattern

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

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

>>>

4.INVERTED PYRAMID PATTERN OF NUMBERS

An inverted pyramid is a downward pattern where numbers get reduced in each iteration, and on the last row, it shows only one number. Use reverse for loop to print this pattern.

SOURCE CODE:

n=int(input(“Enter the Value :”))

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

print()

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

print(i,end=’ ’)

OUTPUT:

Enter the Value : 6

11111

2222

333

44

5

5.ARMSTRONG NUMBER :

PROGRAM:

num=int(input("enter a no : "))

sum= 0

n=num

while(num>0):

rem=num%10

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

num=num//10

if(n==sum):

print("armstrong number")

else:

print("not armstrong number")

OUTPUT:

enter a no : 153

armstrong number

>>>