Exp No:4.1 I. Number series

Write a Program to print series 0 2 6 12 20 30 42 ...N.

PROGRAM;

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

sum=0

i=0

while i<=n:

sum+=i

i+=2

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

OUTPUT:

enter the range of numper:442

the sum of the series= 49062

EXP NO:4.1 I. Number series

Write a Program to print series 0,2,8,14,24,34 ...N.

PROGRAM:

num=int(input("enter number of term"))

s=0

sum1=0

print("series are",end=" ")

for i in range(0,num):

s=s\*10+1

print(s,end=" ")

pum1=sum1+s

print()

print("series sum=",sum1)

OUTPUT:

enter number of term5

series are 1 11 111 1111 11111

series sum= 0

EXP NO:4.2

1. Python program to print the following simple number pattern using a for loop

PROGRAM:

rows=5

b=0

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

b += 1

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

print(b,end=" ")

print(" ")

OUTPUT:

1 1 1 1 1

2 2 2 2

3 3 3

4 4

5

EXP NO :4.3

Simple half pyramid pattern

PROGRAM:

rows=5

k=2\*rows-2

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

for j in range(k,0,-1):

print(end=" ")

k=k+1

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

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

print(" ")

OUTPUT:

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

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

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EXP NO:4.4

Convert Decimal to Binary number

PROGRAM;

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

s=0

num=n

while(n>0):

r=n%10

s=s+(r\*\*3)

n=n/10

if(s==num):

print("the number is armstroing")

else:

print("the number is not armstroing")

OUTPUT:

enter the numper:432

the number is not armstroing