**EXPT.No:04(a)**

Sum of the series 2+4+6+8+………+n

Input

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

sum=0

i=0

while i<=n:

sum+=i

i+=2

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

**output**

Enter the range of number:12

The sum of the series = 42

**Expt.No:4(b)**

**Sum of the series 1+11+111+1111+……+n**

**Input**

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

Sum=0

P=1

For I in range(1,n+1):

    Sum += p

    P = (p \* 10) + 1

Print(“The sum of the series = “,sum)

**Output**

Enter the range of number:6

123456

Expt.No:4(c)

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

**Input**

n=int(input('Enter a number : '))

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

print(str(i)\*n)

n-=1

**output**

Enter a number : 5

11111

2222

333

44

5

**Expt.No:4(d)**

**Pyramid Pattern - Downward full Pyramid Pattern of star**

**Input**

n=int(input('Enter number of rows : '))

a='\*'

s=0

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

    print(' '\*s,end='')

    for j in range(1,i+1):

        print(a,end=' ')

    s+=1

    print()

**output**

**Enter number of rows : 5**

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

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

**\* \* \***

**\* \***

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Expt.No:4(e)

**Check the given number is Armstrong number**

Input

num = int(input("Enter a number: "))

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if num == sum:

print(num,"is an Armstrong number")

else:

print(num,"is not an Armstrong number")

**output**

Enter a number: 153

153 is an Armstrong number