07/01/23

AIM:

To find the sum of the series by using python program.

ALGORITHM:

```
Step 1:Start

Step 2:Get value of n

Step 3:Initialse i=0 and sum=0

Step 4:for i in range(0,n+1)

4.1:if(i<=n)

4.2:Sum=Sum+i

4.3:Increment i by 2

Step 5:Print("Sum of the Series")

Step 6:Stop
```

PROGRAM:

```
\begin{array}{l} n=& int(input("Enter the Number:"))\\ j=&0\\ sum=&0\\ for i in \ range(0,n+1):\\ if(i<&=n):\\ sum=&sum+i\\ i+&=&2\\ print("Sum \ of \ the \ Series=",sum) \end{array}
```

Enter the Number: 5

Sum of the Series =6

EX.NO:4-C INVERTED PYRAMID PATTERN OF NUMBERS 07/01/23

AIM:

To print the numbers in inverted pyramid pattern using python program.

ALGORITHM:

PROGRAM:

```
n=int(input("Enter the Value : "))
for i in range(1,n+1):
    for j in range(i,n+1):
        print(i,end="")
    print()
```

OUTPUT:

Enter the Value: 6

AIM:

To print downward full pyramid pattern of star by using python program.

ALGORITHM;

Step 1:Start

```
Step 2:Get value of n
Step 3:Initialse space=0
Step 4: for i in range(n)
   4.1: for j in range(space)
  4.2:print(" ",end="")
  4.3:Increment space value by 1
   4.4: for k in range(n-I,0,-1)
  4.5:print(" * ",end="")
  4.6:Print(" ")
Step 5:Stop
PROGRAM:
n=int(input("Enter the Value : "))
space=0
for i in range(n):
  for j in range(space):
    print(" ",end="")
  space=space+1
```

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

print("* ",end="")

print(" ")

Enter the Value: 5

* * * * *

* * * *

* * *

* *

*

07/01/23

AIM:

To find the given number is Armstrong or not by using python program.

ALGORITHM:

```
Step 1:Start
Step 2:Get value of n
Step 3:Initialse num=n and sum=0
Step 4: for i in range(0,n+1)
   4.1:while(n>0)
  4.2:calculate rem=n%10
  4.3:calculate sum=sum+(rem**3)
  4.4:calculate n//10
Step 5:if(sum==num)
  5.1:print("Armstrong Number")
  5.2:else,print("Not Armstrong Number")
Step 6:Stop
PROGRAM:
n=int(input("Enter the Number : "))
num=n
sum=0
for i in range(0,n+1):
  while(n>0):
    rem=n%10
    sum=sum+(rem**3)
    n=n//10
```

```
if(sum==num):
    print(num,"is Armstrong Number")
else:
    print(num,"is Not Armstrong Number")
```

Enter the Number: 153

153 is Armstrong Number

EX.NO:4-B

SUM OF SERIES

07/01/23

AIM:

To find the sum of the series by using python program.

ALGORITHM:

```
Step 1:Start
```

Step 2:Get value of n

Step 3:Initialse j=1 and sum=0

Step 4: for i in range(0,n+1)

- **4.1:**if(j<=n)
- **4.2:**Sum=Sum+j
- **4.3:**Increment j=(j*10)+1

Step 5:Print("Sum of the Series")

Step 6:Stop

PROGRAM:

```
\begin{array}{l} n{=}int(input("Enter\ the\ Number:"))\\ sum{=}0 \end{array}
```

```
j=1
for i in range(1,n+1):
  sum=sum+j
  j=(j*10)+1
prin(sum)
```

Enter the Number: 111111

Sum of the Series is 123456