**EX.NO:4-A 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=0 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 by 2

**Step 5:**Print(“Sum of the Series”)

**Step 6:**Stop

**PROGRAM:**

n=int(input("Enter the Number : "))

j=0

sum=0

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

if(j<=n):

sum=sum+j

j=j+2

print("Sum of the Series is ",sum)

**OUTPUT:**

Enter the Number : 8

Sum of the Series is 20

**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:**

**Step 1:**Start

**Step 2:**Get value of n

**Step 3:**for i in range(1,n+1)

**3.1:**Print()

**3.2:**for j in range(n-I,0,-1)

**3.3:**Print(i)

**Step 4:**Stop

**PROGRAM:**

n=int(input("Enter the Value : "))

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

print()

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

print(i,end="")

**OUTPUT:**

Enter the Value : 6

11111

2222

333

44

5

**EX.NO:4-D DOWNWARD FULL PYRAMID PATTERN OF STAR**

**07/01/23**

**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(" ")

**OUTPUT:**

Enter the Value : 5

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

**EX.NO:4-E ARMSTRONG NUMBER**

**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")

**OUTPUT:**

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:**

n=int(input("Enter the Number : "))

sum=0

j=0

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

if(j<=n):

sum=sum+j

j=(j\*10)+1

print("Sum of the Series is ",sum)

**OUTPUT:**

Enter the Number : 111111

Sum of the Series is 123456