|  |  |
| --- | --- |
| EX:NO:3a | Scientific problems using Conditionals and Iterative loops.  Number series |
| Date: |

**Aim:**

To implement Scientific problems using Conditionals and Iterative loops in python programming language. Number series.

**Algorithm: (**Number series)

Step1: Take a value from the user and store it in a variable n.

Step2: Use a for loop where the value of i ranges between the values of 1 and n.

Step3: Print the value of i and ‘+’ operator while appending the value of i to a list.

Step4: Then find the sum of elements in the list.

Step5: Print ‘=’ followed by the total sum.

Step6: Exit.

**Program:**

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

a=[]

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

print(i,sep=" ",end=" ")

if(i<n):

print("+",sep=" ",end=" ")

a.append(i)

print("=",sum(a))

print()

**Result:**