1   ALGORITHM TO DISPLAY SUM OF FIRST 100 NUMBERS:
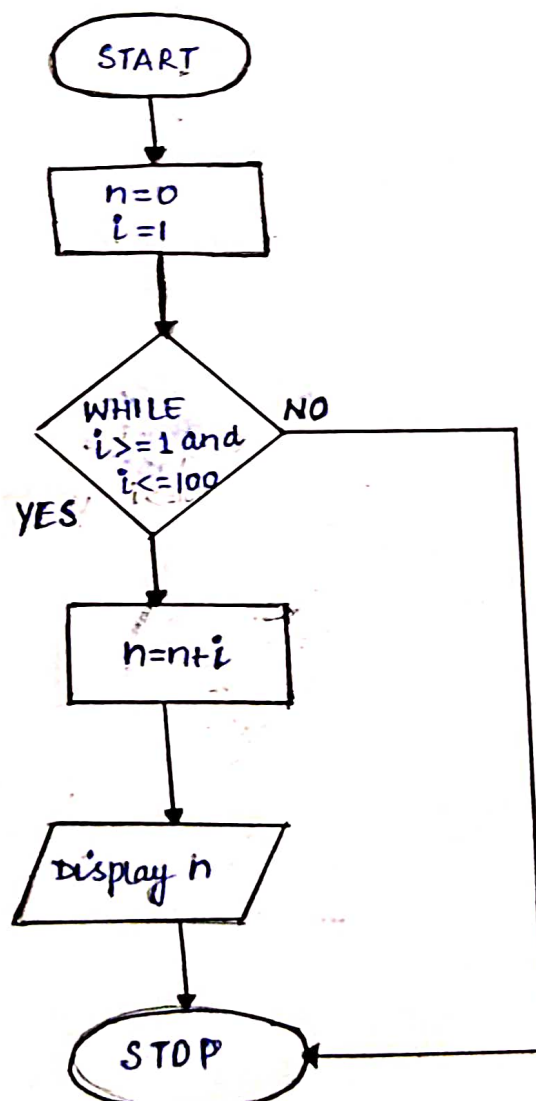
Step 1 : Let $n = 0$ and $i = 1$

Step 2 : While i lies between 1 and 100 including 100

      Step 2.1 : $n = n + i$

Step 3 : Display n, which is the sum of first 100 numbers

FLOWCHART

2
```
n = int (input ("Enter a five digit number : ")
Print ("Number you entered :", n)
f1 = n% 10
n = n - f1
n = n/10
f2 = n%. 10
n = n - f2
n = n/10
f3 = n%10
n = n - f3
n = n/10
f4 = n% 10
n = n - f4
n = n/10
print ("Sum of first digit and the last digit ", f1+n)
S = f1 + n
print (" sum of the first digit and the last digit of the number :", s )
```

Rough

54321

54 32
1 ⟌54321
  5
  4
  4
  32

f1 f2 f3 f
n

dif test

③ OUTPUT⟹ n = 12345

Sum of the first digit and last digit of the number : 6

3
welcome to the world of python
Hello
Good Morning
total result 160

4 def change_bin(n):

    if (n > 1):

        change_bin(n//2)

    print(n%2, end="")

n = int(input("Enter any decimal number: "))

change_bin(n)

→ OUTPUT →

Enter any decimal number: 10

>> 1010

5 import math

5

```
import math
def taylor (x, n):
    s = 0
    sum = 1
    for i in range ( 1 , n+1 , 2):
        sum = sum +((x ** i)/ math.factorial (i) * s )
        s = s*(-1)
    return sum

x = int (input ("Enter the value of x ")
n = int (input ("Enter the value of n")
taylor (x, n)
```