Find the sum of 5 numbers

In this question we are asked to find the sum of 5 numbers. So, we will take two variables – sum and count and set both of them to zero. The sum variable will store the result while the count variable will keep track of how many numbers we have read.

To solve this problem, we will use the concept of loop. In loop or iterative operation, we execute some steps repeatedly as long as the given condition is TRUE. In this case we will keep reading the input till we have read 5 numbers.

So, we first initialize sum and count to zero. Then we will take the input and store it in a variable n. Next we will add the value stored in n to sum and save the answer in sum.

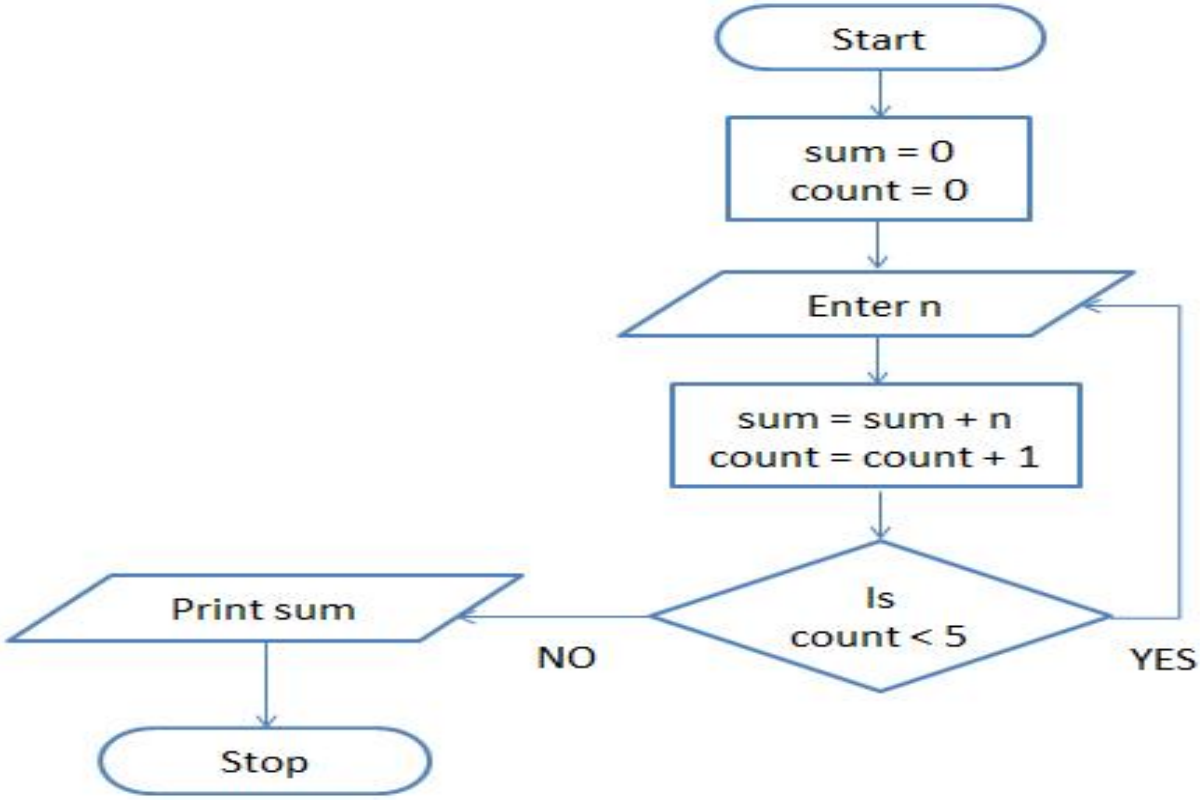
i.e., sum = sum + n

Then we will increment count by 1 and check if count is less than 5. If this condition is TRUE then we will take another input. If the condition is FALSE then we will print the value stored in variable sum.

Algorithm (in simple English)

1. Initialize sum = 0 and count = 0 (PROCESS)
2. Enter n (I/O)
3. Find sum + n and assign it to sum and then increment count by 1 (PROCESS)
4. Is count < 5 (DECISION)
5. if YES go to step 2
   else
   Print sum (I/O)

Flowchart



A. Print Hello World 10 times

This problem is also solved using the loop concept. We take a variable count and set it to zero. Then we print "Hello World" and increment count by 1.

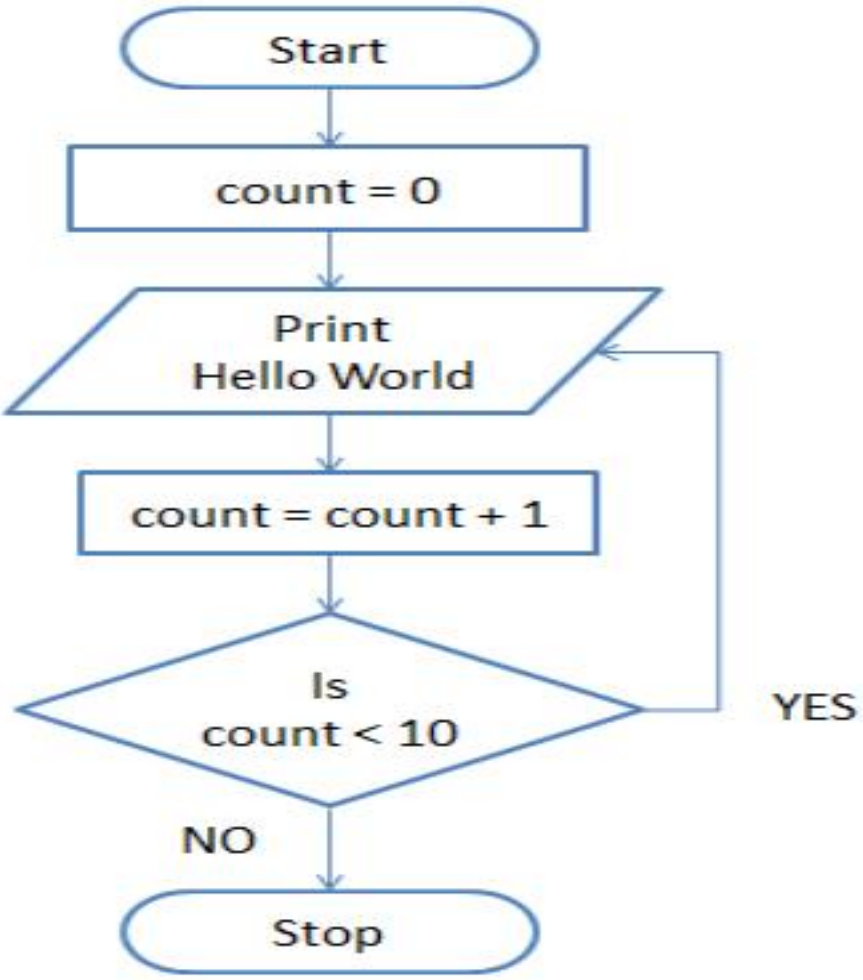
i.e., count = count + 1

Next we check if count is less than 10. If this is TRUE then we again print "Hello World" and increment the variable count. On the other hand if the condition if FALSE then we will stop.

Algorithm (in simple English)

1. Initialize count = 0 (PROCESS)
2. Print Hello World (I/O)
3. Increment count by 1 (PROCESS)
4. Is count < 10 (DECISION)
5. if YES go to step 2
   else Stop

Flowchart


Start
count = 0
Print
Hello World
count = count + 1
Is
count < 10
YES
NO
Stop