```
Enter a positive integer: 10
Sum = 55
[Process completed - press Enter]
```

Step 1: Start

Step 2: Declare int add numbers (int n)

Step 3: Declare int num

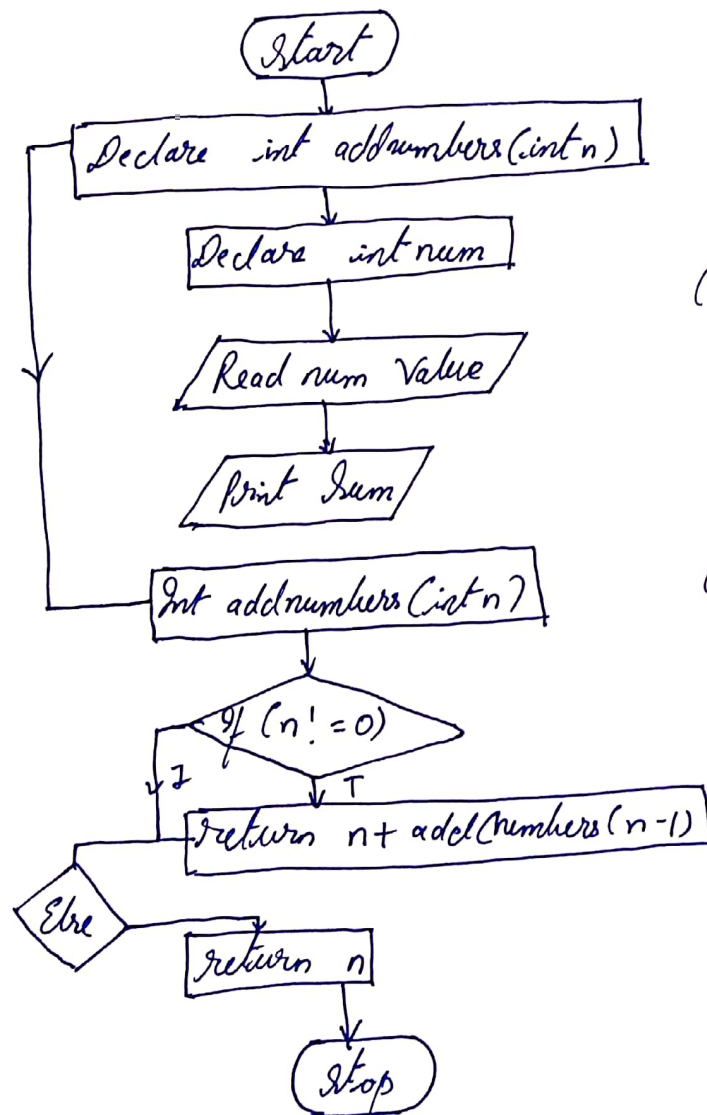Step 4: Read num Value

4.1 Print Sum

Step 5: Int add numbers (int n)

5.1 If (n! = 0)

return n+ add numbers (n-1)

Else

5.2 return n

Flowchart

```
        ( Start )
            |
  +---------v-----------------------+
  | Declare int addnumbers (int n ) |
  +---------------------------------+
            |
  +---------v---------+
  | Declare int num   |
  +-------------------+
            |
       /Read num Value/
            |
       /Print Sum/
            |
  +---------v----------------+
  | Int addnumbers (int n )  |
  +--------------------------+
            |
       < If (n! = 0) >
        F |        | T
          |   return n+ addnumbers (n-1)
      < Else >
          |
       return n
          |
        ( Stop )
```

Calling function

Called function.