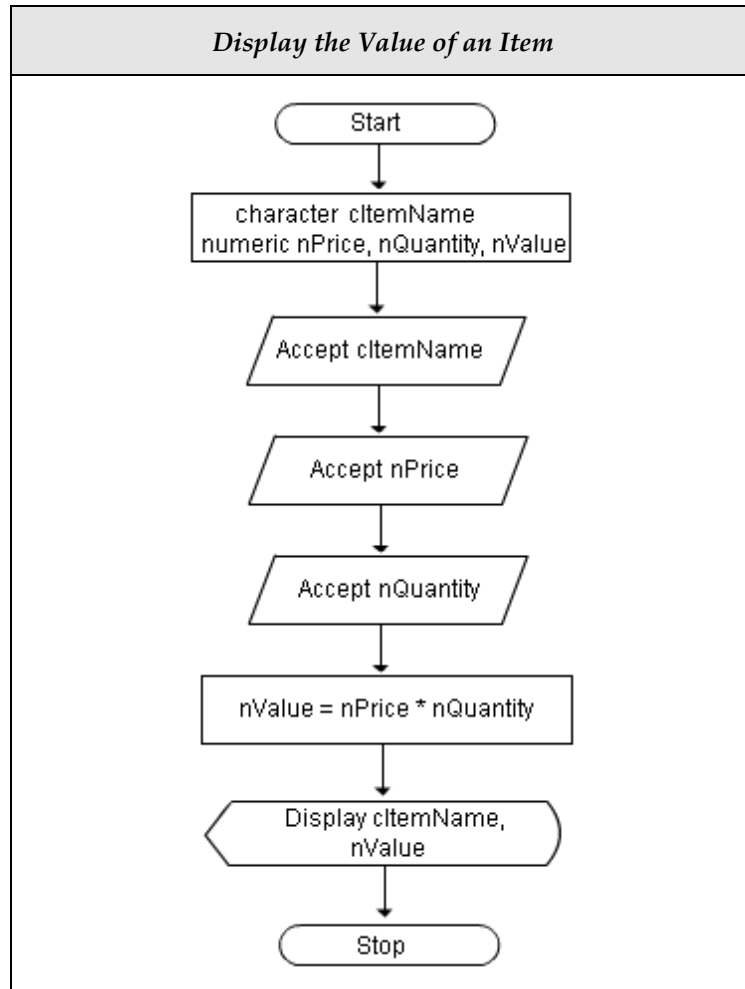


Draw a flowchart to accept item name, price, and quantity. You need to calculate value as the product of price and quantity, and display the calculated value and the item name using variable Solution:



2.P.1

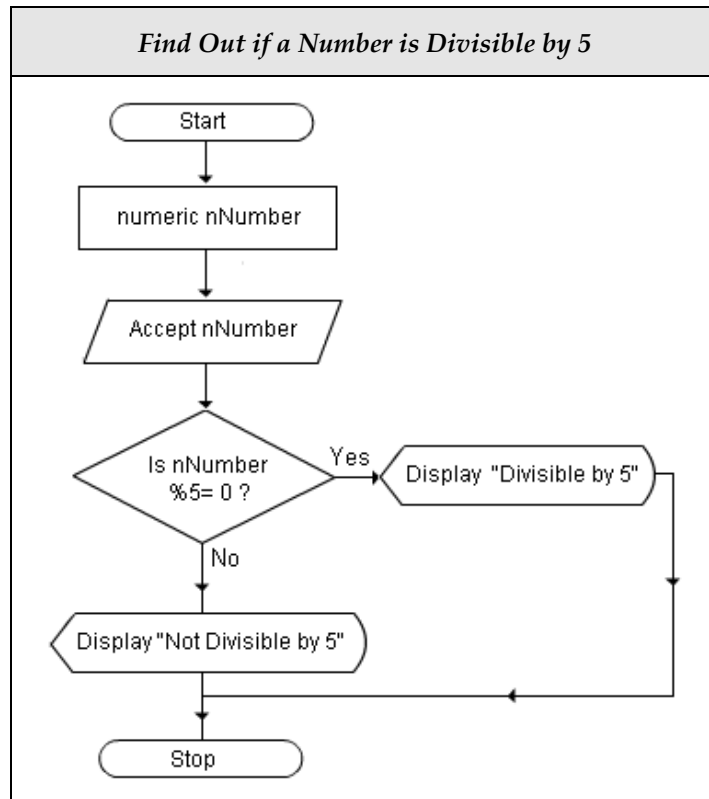
- a) OK
- b) REJECT
- c) GOOD

2.P.2

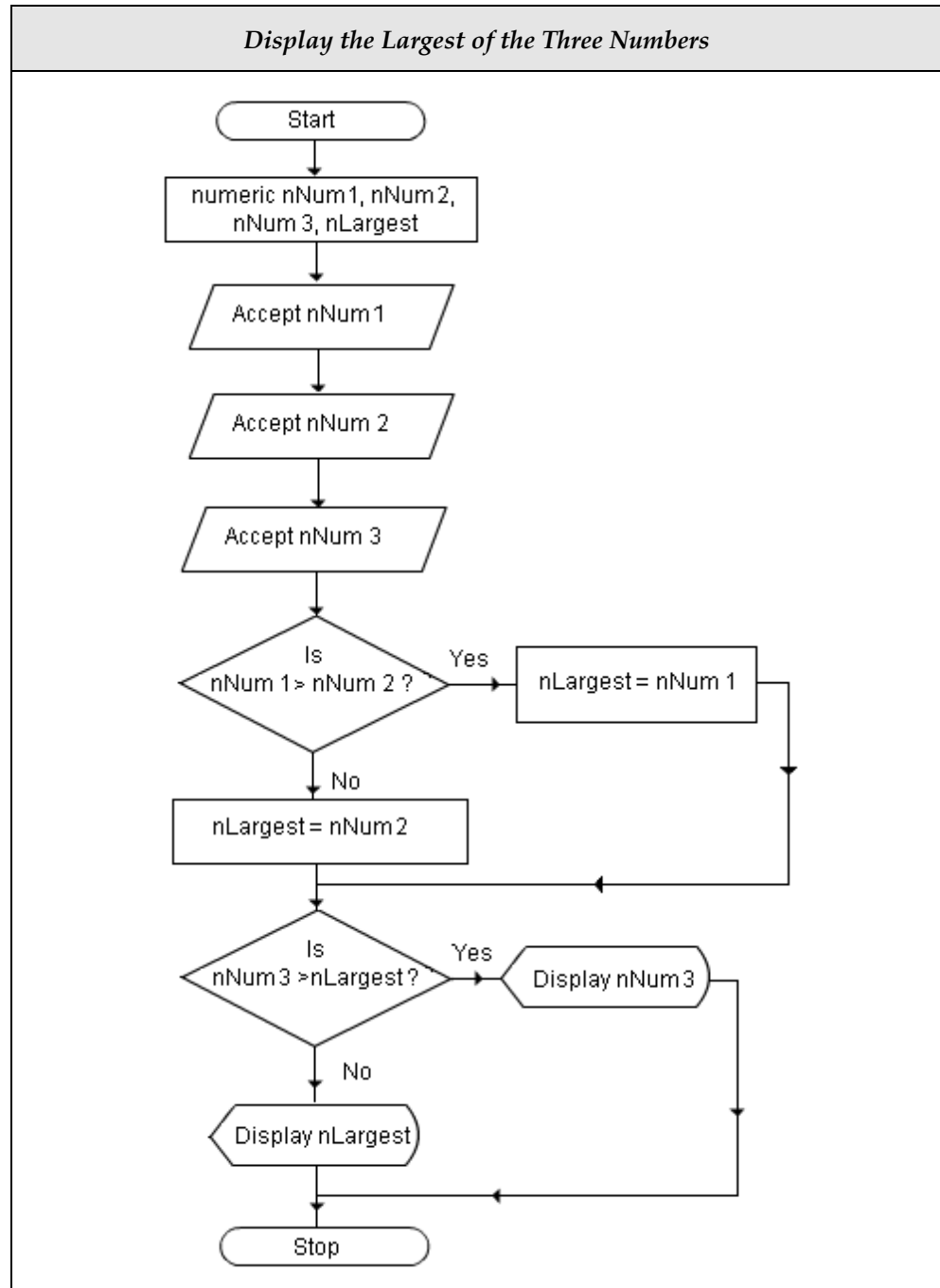
- a) GOOD will be printed, since $nX > nY$ and $nX > 100$.

- b) Nothing will be printed (even though nX is greater than nY, it is still less than 100).
- c) Nothing will be printed (even though nY is greater than nX, it is still less than 100).

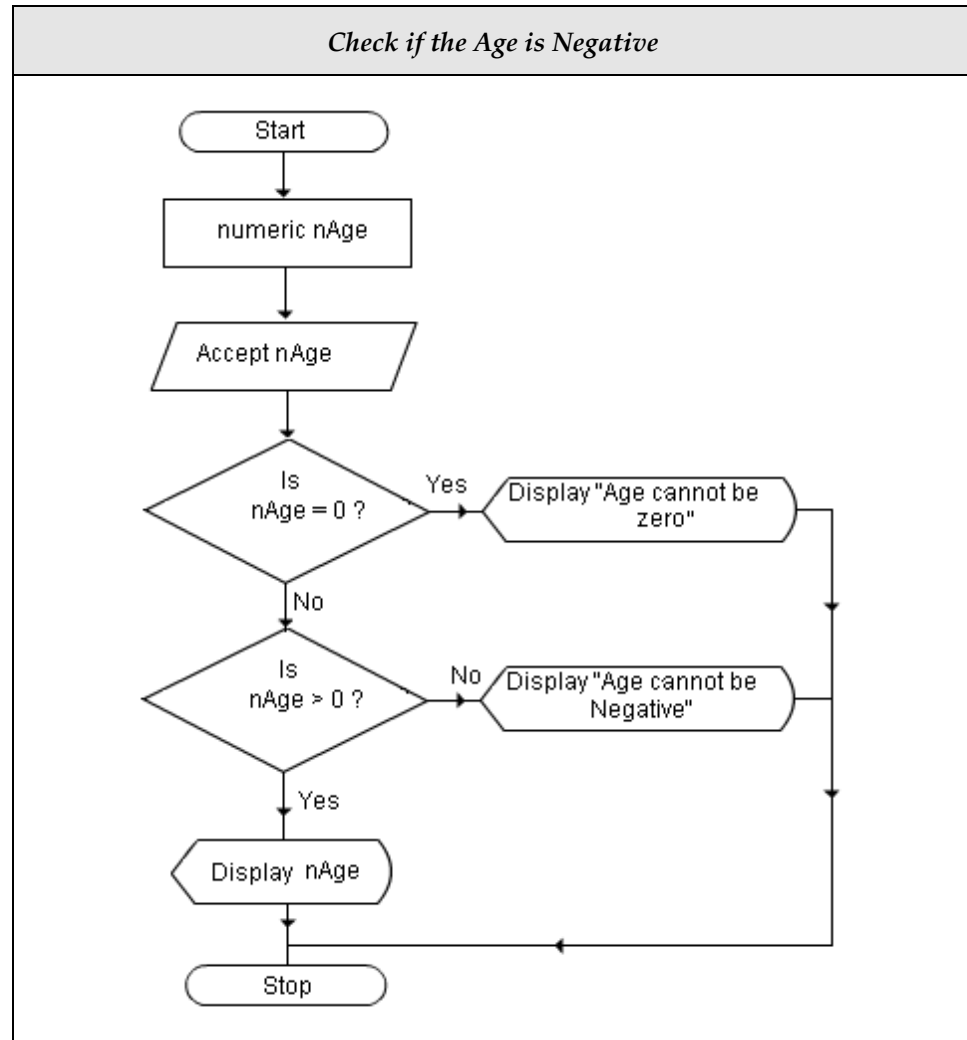
2.P.3



2.P.4



2.P.5



Lesson Three

Experiences

You may need to spend time on explaining iteration as some students may find it difficult to grasp. You may need to spend time on explaining the concept of modules or procedures. You will also need to explain to the students the use of the symbol used for depicting procedures in flowcharts, since this is the first time they will be using this symbol.

Examples and Analogies

Since 'procedures' is a new concept, you will need to give some simple examples to understand this concept. I often use this example. I have a dog at home. Every morning the first thing I do is call out to the dog and ask it to fetch me the newspaper. So fetching the morning newspaper is a procedure that I can call everyday.

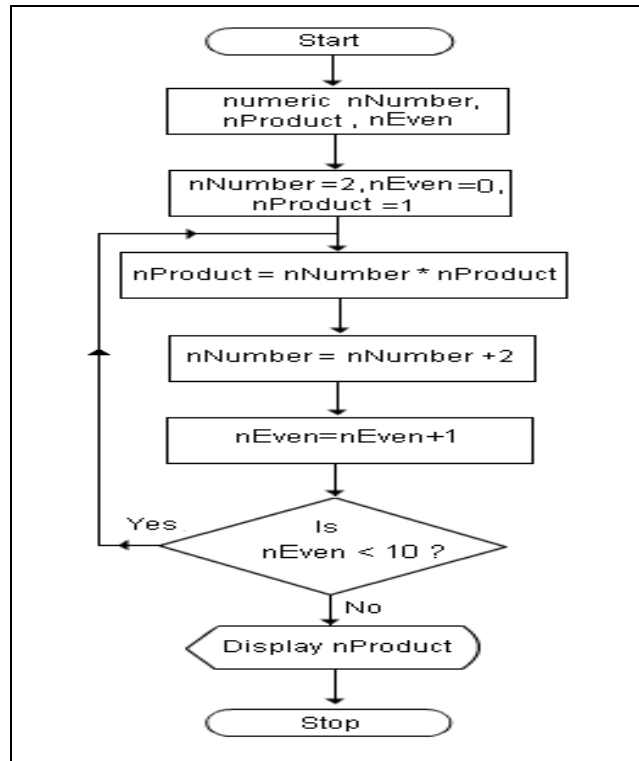
Additional Inputs

After the completion of an example, you should take the test case values and do a step by step dry run, so that the students are familiar with the dry run process and are clear on how to check the flow of control.

Solutions:

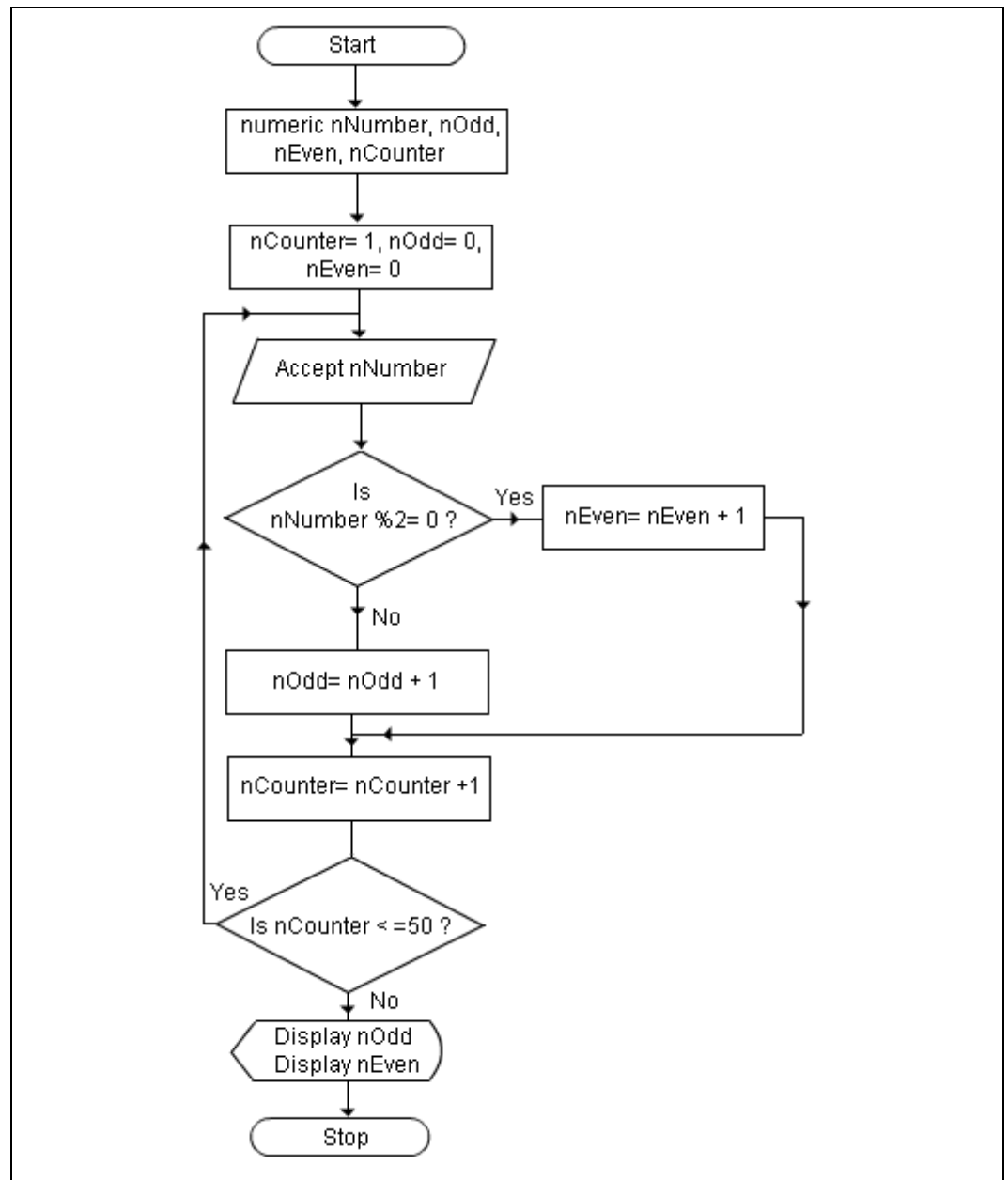
3.P.1

Display the Product of Ten Even Numbers

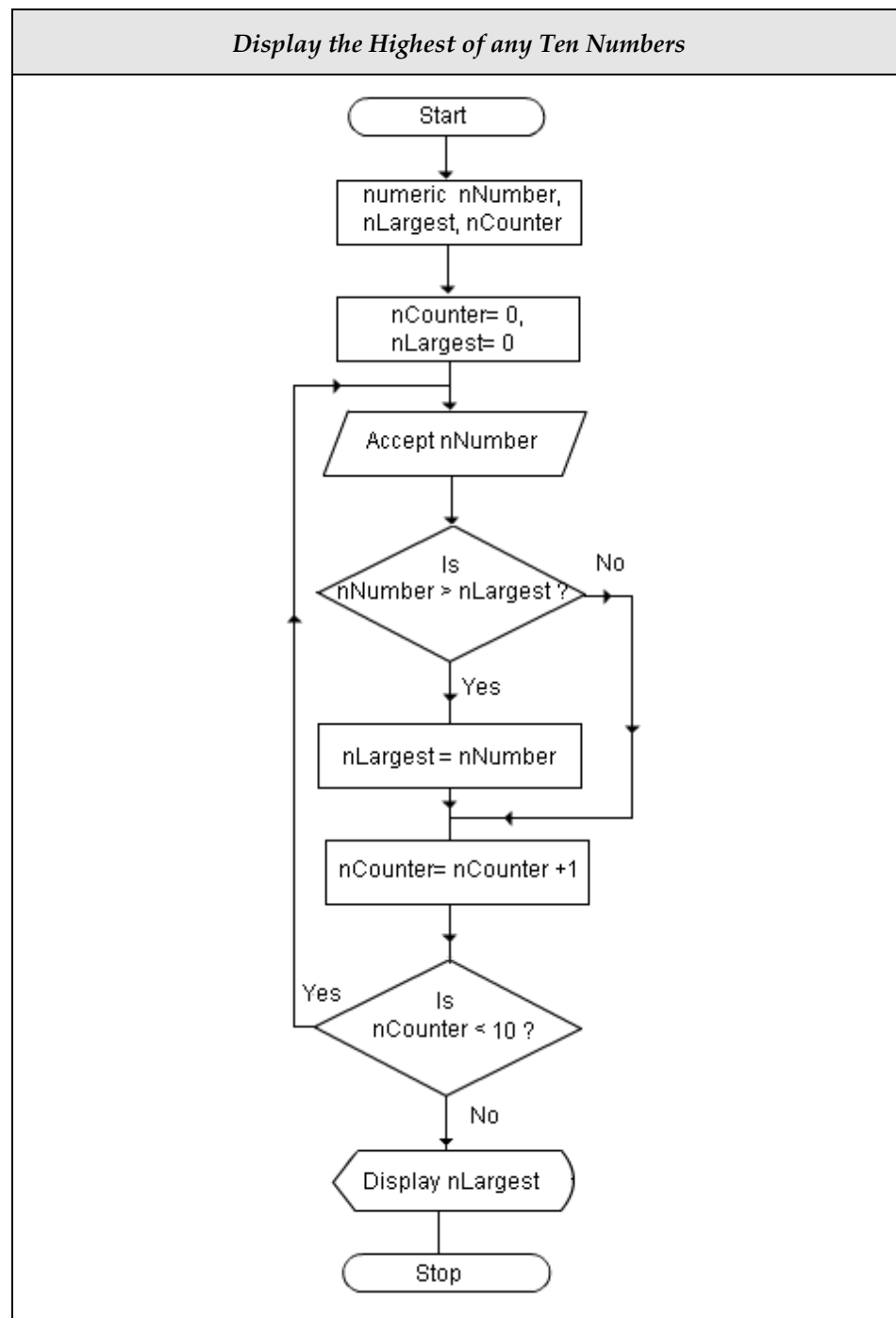


3.P.2

Count the Number of Odd and Even Numbers

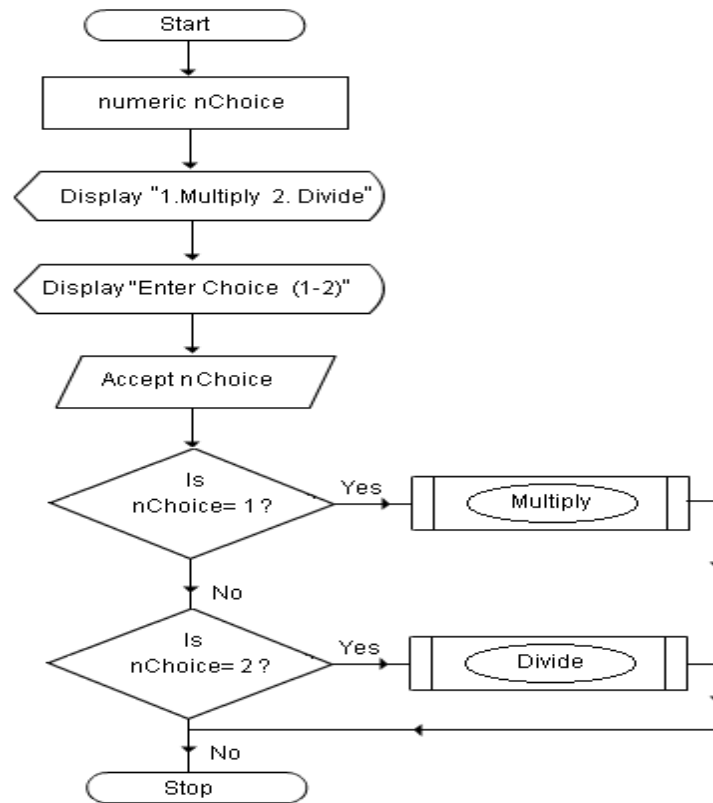


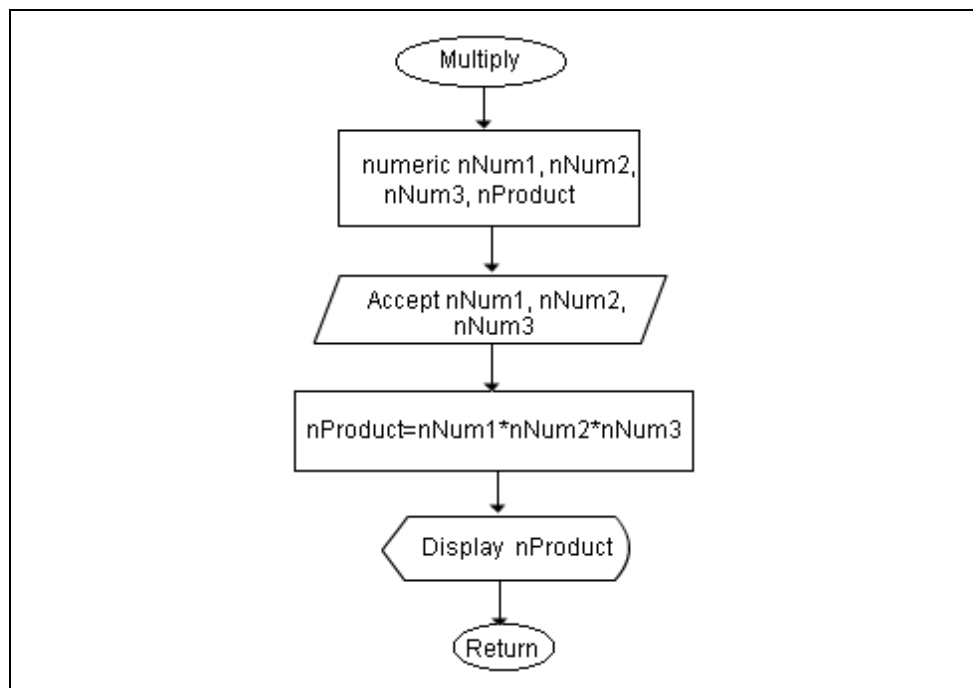
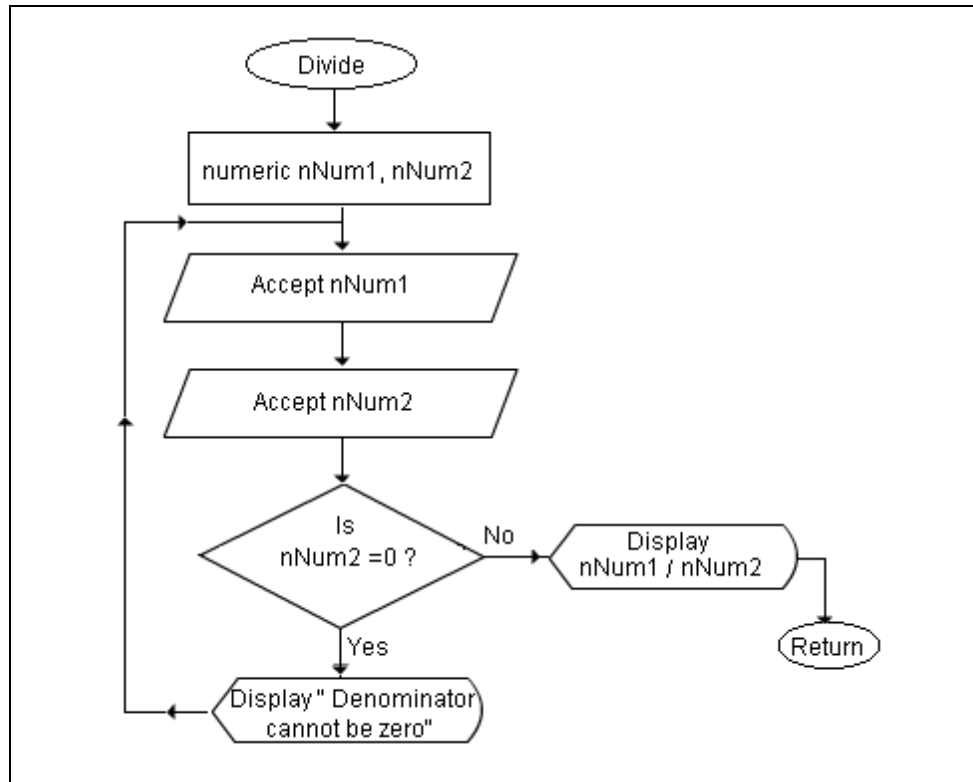
3.P.3



3.P.4

Modular Programming





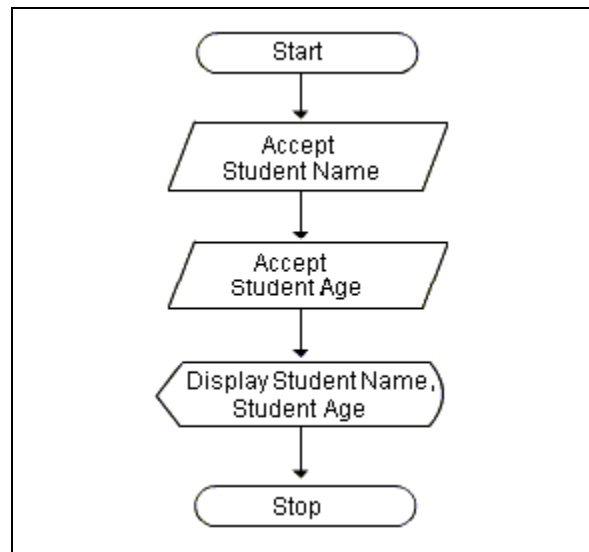
The names will be displayed infinite number of times, as the value of nCounter does not change. The value of nCounter will remain 0 and the condition will never become false. So the loop will never terminate. This is an infinite loop.

Lesson One

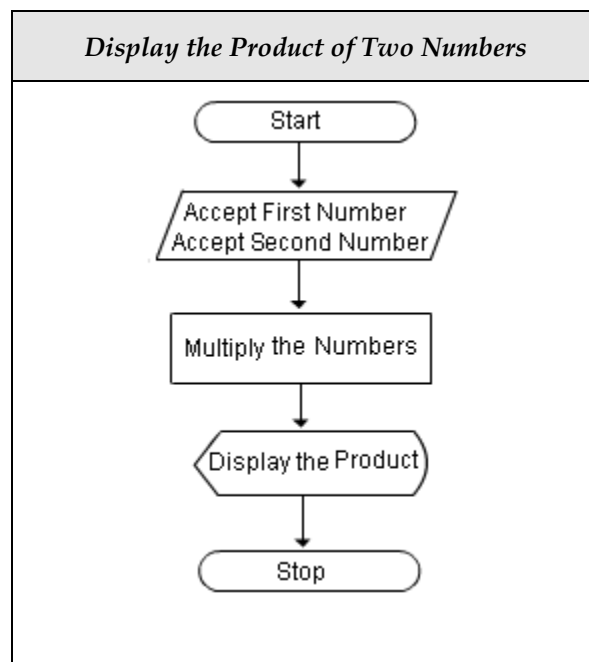
Solutions:

1. Draw a flow chart to prepare tea.
2. Draw a flow chart to accept two number and find sum of them.
- 3.

Display Name and Age



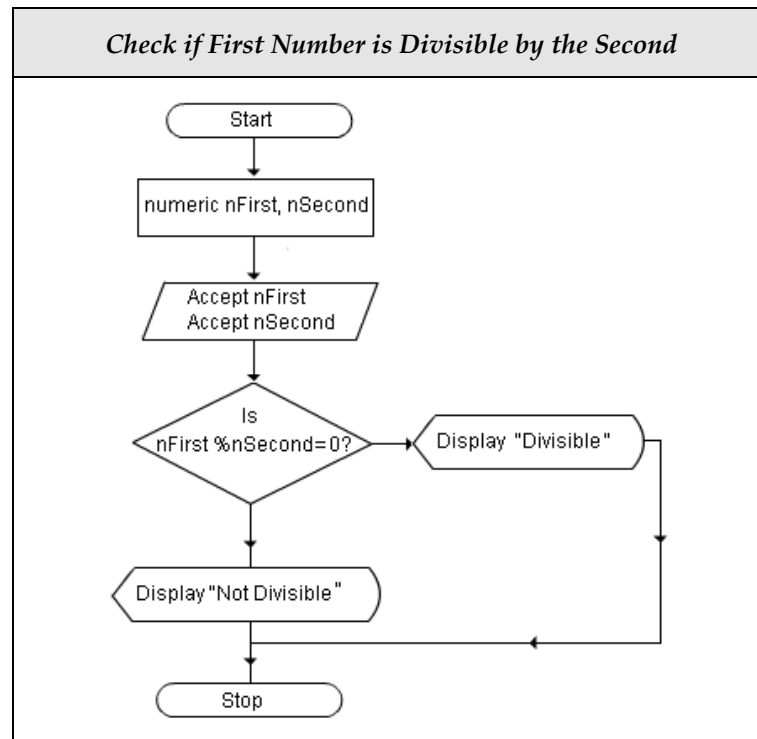
2.



Lesson Two

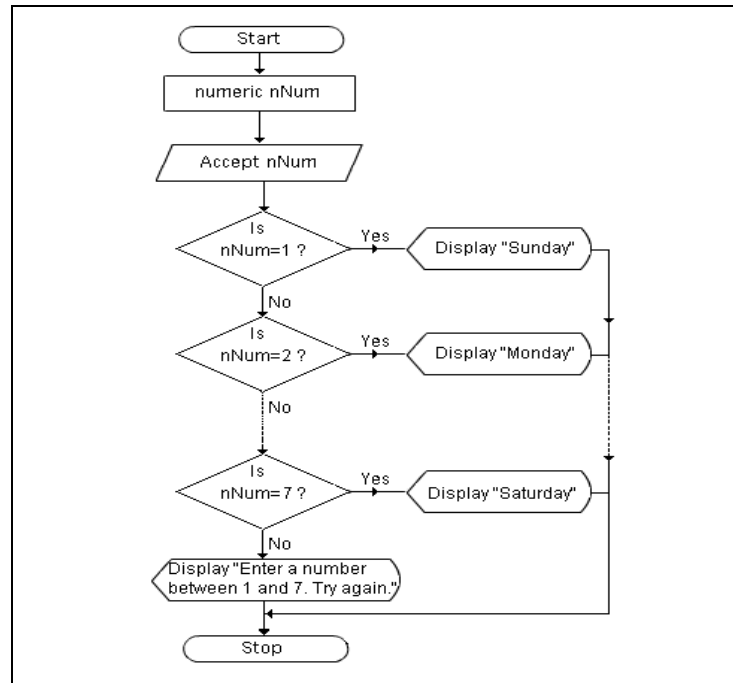
Solutions:

1. Draw a flow chart to accept ten numbers and find greatest among them.
- 2.

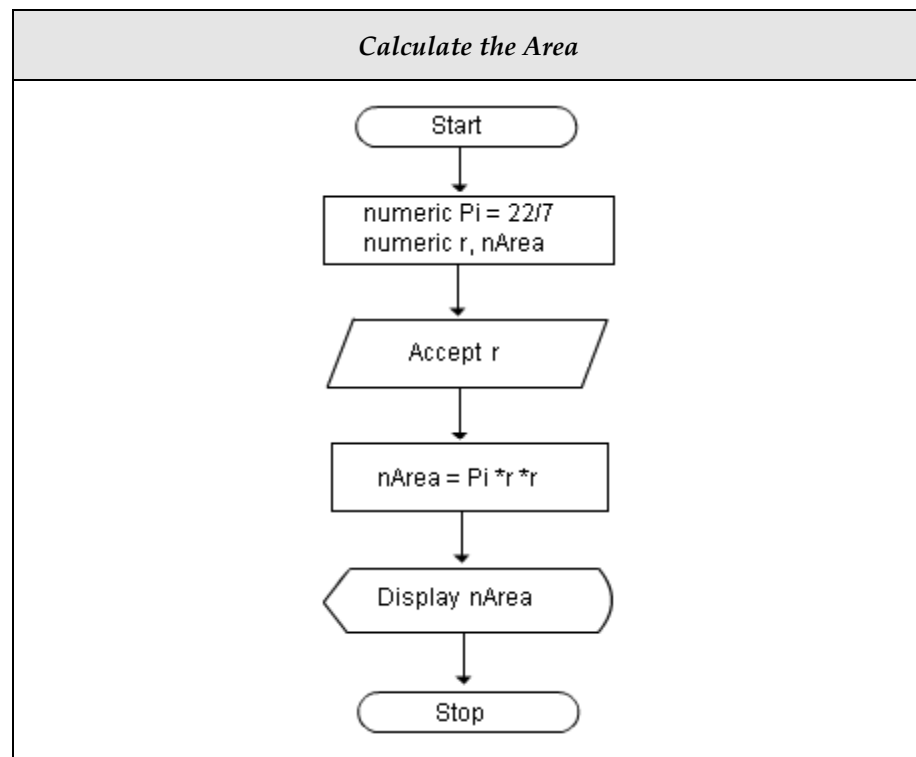


- 3.

Display the Day of the Week

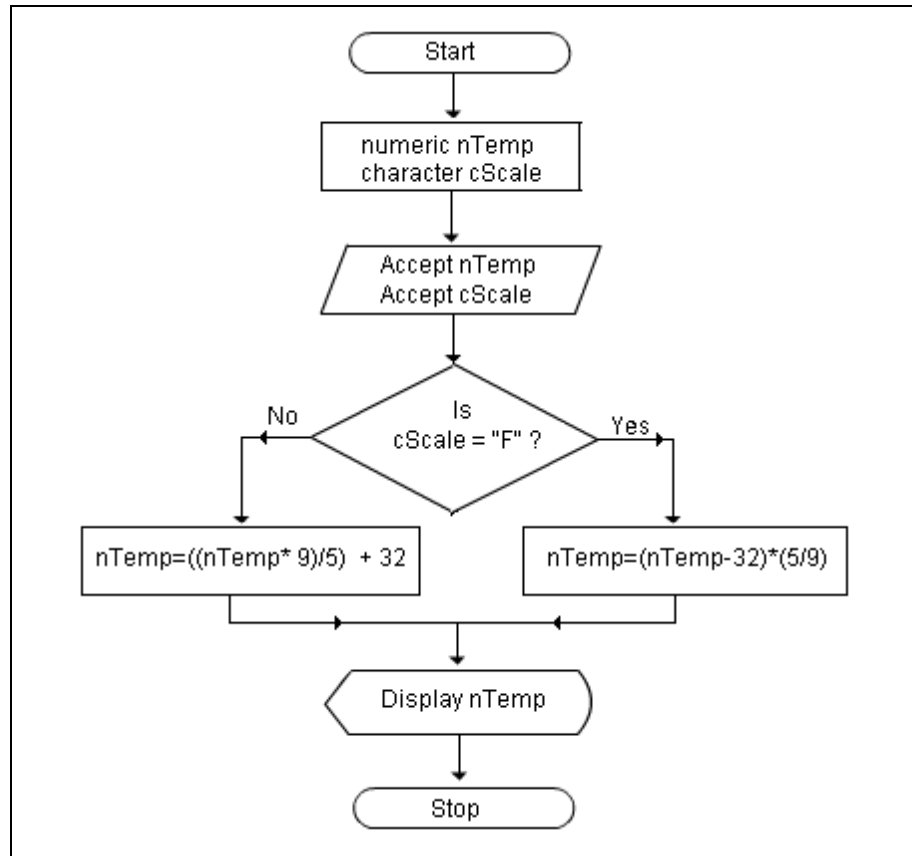


4.



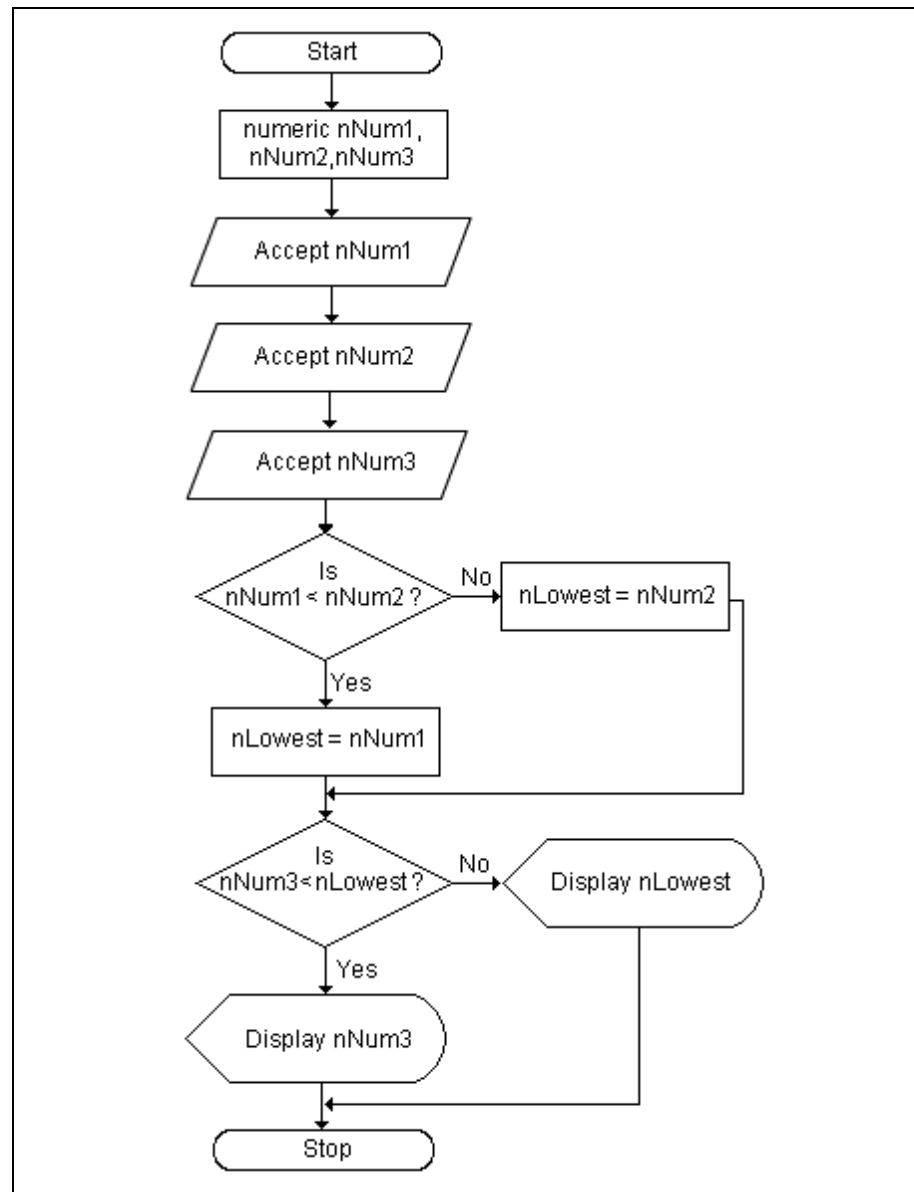
5.

Convert the Temperature from Fahrenheit to Celsius



6.

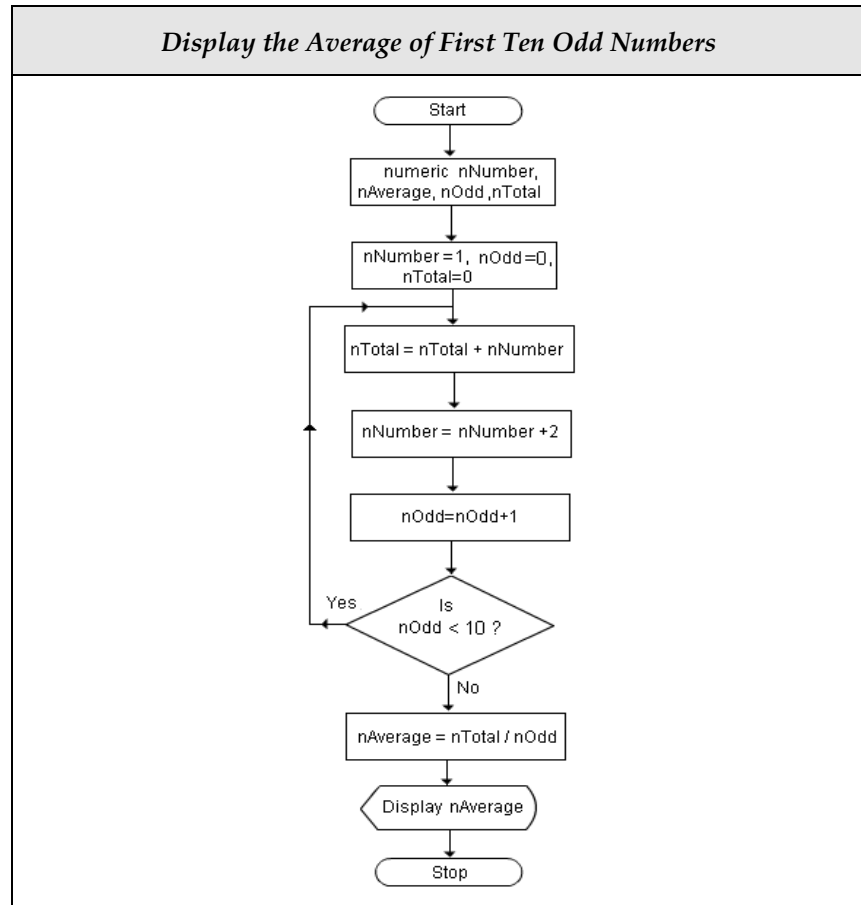
Display the Lowest of the Three Numbers



Lesson Three

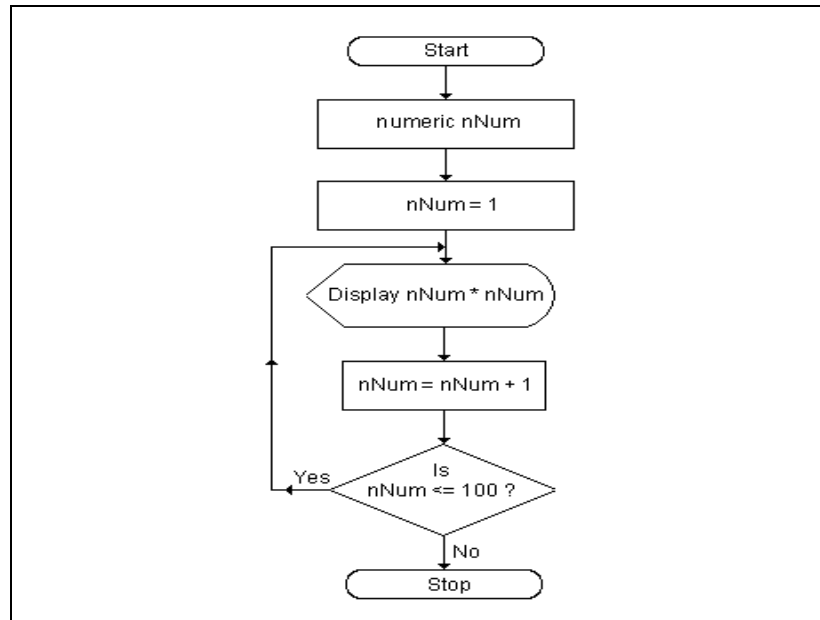
Solutions:

1.



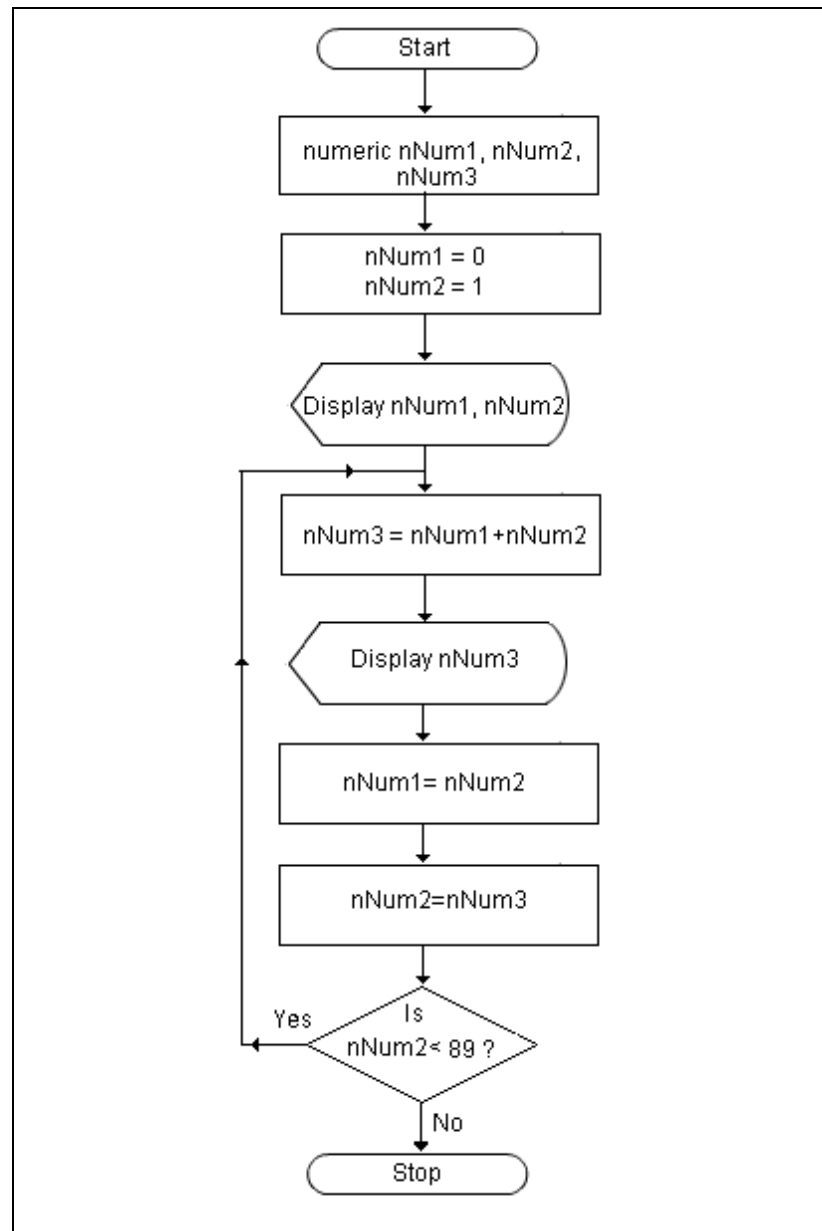
2.

Display the Square of the First 100 Natural Numbers



3.

Display Fibonacci Series



4.

