

Lecture 10.1

Topics

1. Basic Programming Structures – Revisited
2. Menu Setup & Applications with **do-while** Statement

1. Basic Programming Structures – Revisited

Recall that there are 3 programming structures as illustrated in the figure below.

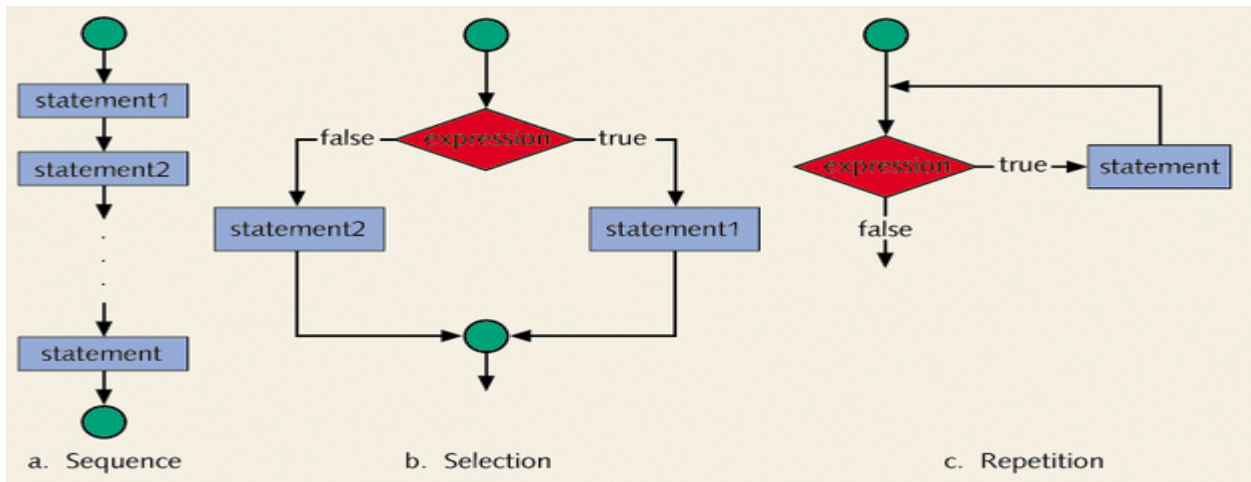


Figure 1 Three basic programming structures

With these 3 basic programming structures, solutions to any given problem will be possible. One particular form of providing optional testing loop is the so-called menu application – Implemented through a combination of switch and do-while loop.

A sample output of a menu application is given below where a program will allow us to select and run the options until we decide to stop.

MENU --

- (1) Add
- (2) Subtract
- (3) Multiply
- (4) Divide
- (5) Quit

Select and enter an integer for option + ENTER: **1**

Enter first operand: **2**

Enter second operand: **3**

2.000000 + 3.000000 --> 5.000000

MENU --

- (1) Add
- (2) Subtract

- (3) Multiply
- (4) Divide
- (5) Quit

Select and enter an integer for option + ENTER: 9

Invalid Option!

MENU --

- (1) Add
- (2) Subtract
- (3) Multiply
- (4) Divide
- (5) Quit

Select and enter an integer for option + ENTER: 3

Enter first operand: 5

Enter second operand: 6

5.000000 * 6.000000 --> 30.000000

MENU --

- (1) Add
- (2) Subtract
- (3) Multiply
- (4) Divide
- (5) Quit

Select and enter an integer for option + ENTER: 5

It is fun! Bye ...