Week 06

Exercise 1:
Draw general flow charts for sequence, one-way selection and two-way selection.

Exercise 2:
Write the C++ syntax for one-way selection and two-way selection.

Exercise 3:
Draw flowchart and write pseudocode & C++ code to output the simple interest for given principal, interest rate and time period.

Exercise 4:
Draw flowchart and write pseudocode & C++ code to output the smallest number of three given numbers.

Exercise 5:
Draw flowchart and write pseudocode & C++ code to output the final payment for given amount. If the amount is greater than Rs. 5,000.00, 10% discount should be given.

Exercise 6:
Draw flowchart and write pseudocode & C++ code to output whether a student is pass or fail in the exam. A student is pass only if he/she score above 50 as average of all three subjects.

Exercise 7:
Guess the output of the following C++ programme, if the input is
    i)   -3 and 7
    ii)   10 and 9
    iii)   2.4 and 0
    iv)   5.5 and 5.05

```cpp
#include <iostream>
main()
{
  float x, y, min;
  cout << "Enter two different numbers:\n";
  if( cin >> x && cin >> y)
  {
    if( x < y )
      min = x;
    else
      min = y;
    cout << "\nThe smaller number is: " << min << endl;
  }
  else
    cout << "\nInvalid Input!" << endl;
}
```