Objectives

- To understand the role of each component in a computer
- To understand the purpose of an Operating System
- To understand the differences between machine language, assembly language, and high-level language
- To understand the general structure of a C++ program.
- To understand the steps to develop and run a C++ program.
- To understand how to perform input and output operations in a C++ program.
- To understand how to use “string” and “int” data types.
- To understand the meaning of syntax errors and how to debug.

Instructions

1. The TA covers the above mentioned objectives through developing the following C++ program. This program takes first the student’s first name, next his/her section number in CSCE 106 course. The program prints out a welcome message composed of “Welcome” followed by the entered name then the text “to CSCE 106 Section “ followed by the value of the entered section number. (30 minutes)

/* My first program in C++
   My name is Ahmed
   I'm a student in CSCE 106 section 01 */

#include <iostream>
#include <string>
using namespace std;

void main()
{
   // Declaration of Variables & constants
   string Fname; // First name
   int SectionNo; // Section Number

   // Input
   cout << "Please, enter your first name: ";
   cin >> Fname;

   cout << "Please, enter your section number of CSCE 106 course: ";
   cin >> SectionNo;

   // Output
   cout << "Welcome " << Fname << " to CSCE 106 Section " << SectionNo << endl;
   system("pause");
}

2. The TA asks the students to develop a C++ program that first takes the first name of the student and next his/her last name. The program should display the full name of the student in the format: lastname, firstname. For example, if the student enters “Ahmed” for the first name, then “Khalil” for the last name, the program displays “Khalil, Ahmed”. Each student submits a print out of his/her program to the TA to be graded. (30 minutes).