```cpp
//  This program prints "You Pass" if a student's average is
//  60 or higher and prints "You Fail" otherwise

// Michael Steele
#include <iostream>
using namespace std;

int main()
{

    float average;    // holds the grade average

    cout << "Input your average:" << endl;
    cin >> average;

    if (average >= 60 && average <= 79)
        cout << "You Pass" << endl;
    if (average > 100)
        cout << "Invalid Data" << endl;
    if (average >= 90 && average <= 100)
        cout << "A" << endl;
    if (average >= 80 && average <= 90)
        cout << "B" << endl;
    if (average >= 80 && average <= 70)
        cout <<  "C" << endl;
    if (average >= 0 && average < 59)
        cout << "You Fail" << endl;




    return 0;
}
```