

Massey University, Albany
Semester 2 2012

Student ID _____**SAMPLE**_____

Student Family Name_____**SOLUTION**_____

Student Given Names_____

159.234 Object Oriented Programming
Term test

This test has 3 questions.

Answer all of them. Assume all necessary header files were included and
using namespace std; was used.

Maximum possible marks: 20

Time: 45 minutes

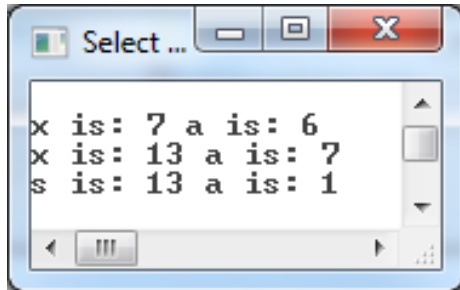
Mark /20

Success!

Question 1. [6 Marks]

A. iii) B. i) C. iii) D. ii) E. iii) F. i)

Question 2. [6 Marks]



Question 3. [8 marks]

```
double Student::getFinalMark() {
    double result = 0;
    result += midterm;
    for(int i = 0; i < 5; ++i) {
        result += assg[i]*0.4;
    }
    result += 0.60* exam;
    return result;
}
/* function reads data from standard input device and set
the data members for the object parameter oneStudent */
void input(Student& oneStudent) {
    //read in student's name
    string name;
    cout << "name: ";
    cin>>name;

    oneStudent.setName(name);

    cout << "\nassignment marks: \n";
    double assgMarks[5];
    for(int i = 0; i < 5; ++i) {
        cout << "assg" << (i+1) << "(max 10): ";
        cin >> assgMarks[i];
    }
    oneStudent.setAssgMarks(assgMarks);

    cout << "midterm(max 20): ";
    double midTM;
    cin >>midTM;
    oneStudent.setMidtermMark(midTM);

    cout << "exam(max 100): "; double examM;
    cin >> examM;
    oneStudent.setExamMark(examM);
}
```