Class Activity 4 – Chapter 4

Name_____

1) Text book(Exam Preparation Exercise)/Chapter4 & Question3:

a =   b =   c =   d =   e =   f =

2) Text book(Exam Preparation Exercise)/Chapter4 & Question4:

a =   b =   c =   d =   e =   f =

True or false?
1) The input statement **cin >> someInt;** could also be written as **somoeInt << cin;**
2) Using the **>>** operator, a floating-point data value may be read into an **int** variable.

Multiple choices
1) Given **const int a = 10;** which of the following is not a valid use of **a**?
a) cout << a * 3;

b) a = 12;

c) cin >> a;

d) a and c above

e) b and c above

2) Given char ch1, ch2, ch3; and two lines of input data:
A B
CDE
what value is read into ch3 by the following code? **cin >> ch1 >> ch2 >> ch3;**

a) 'B'

b) ' '   (blank)

c) 'C'

d) 'D'

e) none of the above

What is the output of the following program?

```
#include <iostream.h>
#include <fstream.h>

int main()
{
    ifstream inFile;
    inFile.open("input");

    char ch;
    int count = 0;

    inFile.get(ch);
    while (! inFile.eof())
    {
        ++count;
        inFile.get(ch);
    }
    cout << "The total number of characters is: " << count << endl;
    return 0;
}
```

Input file:
123 5
678
9

Output:

_____

_____

```cpp
//Interactive I/O: use of cin & cout Chap4I
#include <iostream>
#include <string>
#include <iomanip>
using namespace std;

int main()
{
    cout.setf(ios::fixed);
    cout.precision(2);

    int id;
    float exam1, exam2, exam3, avg;
    string name;
    char sex;
    cout << "Note: eneter each data with a space." << endl;
    cout << "Enter Id, Name, Sex, Exam1, Exam2, Exam3:" << endl;
    cin >> id >> name >> sex >> exam1 >> exam2 >> exam3;

    avg = (exam1 + exam2 + exam3)/3;

    cout << "~*< Exam AVG Report >*~" << endl << endl;
    cout << "Id = " << id << endl;
    cout << "Name = " << name << endl;
    cout << "Sex = " << sex << endl;
    cout << "Exam1 = " << exam1 << endl;
    cout << "Exam2 = " << exam2 << endl;
    cout << "Exam3 = " << exam3 << endl << endl;
    cout << "Exam AVG = " << avg << endl << endl;
    cout << "~ end ~ " << endl;

    return 0;
}
```

```
> cxx
> ./a.out
Note: After each data enter a space.
Enter Id, Name, Sex, Exam1, Exam2, Exam3:
123 Viva,Ali M 88 98 91
~*< Exam AVG Report >*~
Id = 123
Name = Viva,Ali
Sex = M
Exam1 = 88.00
Exam2 = 98.00
Exam3 = 91.00

Exam AVG = 92.33

~ end ~
```