

Class Activity 6 – Chapter6

Name_____

1) Text book(Exam Preparation Exercise)/Chapter6 & Question4:

a. b. c. d. e. f. g. h. i.

2) Text book(Exam Preparation Exercise)/Chapter6 & Question5:

3) Text book(Exam Preparation Exercise)/Chapter6 & Question6:

4) Text book(Exam Preparation Exercise)/Chapter6 & Question7:

5) True or false?

The termination condition for the following while loop is loopCount > 9.

```

while (loopCount < 9)
{
    cout << loopCount << endl;
    loopCount++;
}

```

6) Multiple Choice

What is the output of the following code fragment?

```

n = 1;
while (n < 5)
{
    cout << n << ' ';
    n++;
}

```

- a) 1 2 3 4 5
- b) 1 2 3 4
- c) 1 1 1 forever
- d) 2 3 4 5
- e) 2 3 4 5 6

7) Use the Unix compiler output below to identify the 1 errors.

syn5.cxx: In function `int main()`:
 syn5.cxx:17: error: expected `}' at end of input

```
#include <iostream>
using namespace std;
int main()
{
    int x = 0;
    int a, b;

    while ( a >= 0)
    {
        x++;
        a = x;
        b = a + x;
        cout << x << ' ' << a << ' ' << b;

        return 0;
    }
```

8)What is the output of the following program? ON TEST

Assume this is the “in” is : 4 2 5 2 -1 3 6

```
#include <fstream>
#include <iomanip>

using namespace std;

int main()
{
    ifstream inFile;
    inFile.open("in");
    ofstream outFile;
    outFile.open("out");

    int count = 0;
    int sum = 0;
    int num;
    float avg;
    bool ok;
```

```

    ok = true;
    while (ok)
    {
        inFile >> num;
        if (num < 0)
            ok = false;
        else
        {
            count++;
            sum += num;
            outFile << count << " " << num << " " << sum << endl;
        }
    }

    outFile << "AVG is: " << sum/count << endl;

    return 0;
}

```

Output:

```

//While loop Chap6I
#include <iostream>
#include <fstream>
#include <iomanip>
using namespace std;

int main()
{
    ofstream outFile;
    ifstream inFile;
    outFile.open("out.dat");
    inFile.open("in.dat");

    outFile.setf(ios::fixed);
    outFile.precision(2);

    float examScore, avg;
    float sumOfScore = 0.0;
    int count = 0;
    float max = 0.0;
    float min = 100.0;

```

```

outFile << "*** Exam Report ***" << endl;
outFile << endl;

inFile >> examScore;
while(inFile)
{
    if((examScore >= 0) && (examScore <=100))
    {
        outFile << examScore << endl;
        sumOfScore = sumOfScore + examScore;
        count = count + 1;

        if(examScore > max)
            max = examScore;

        if(examScore < min)
            min = examScore;
    }
    else
        outFile << examScore << "    Invalid exam" << endl;

    inFile >> examScore;

}
avg = sumOfScore/count;

outFile << endl;
outFile << "Exam Max: " << max << endl;
outFile << "Exam Min: " << min << endl;
outFile << "Exam Avg: " << avg << endl;

outFile << endl;
outFile << "< end >" << endl;

return 0;
}

```

in5.dat:

```

77
-60
88
99
101

```

out5.dat:

*** Exam Report ***

77.00

-60.00 Invalid exam

88.00

99.00

101.00 Invalid exam

Exam Max: 99.00

Exam Min: 77.00

Exam Avg: 88.00

< end >