

Class Activity 5 – Chapter 5

Name_____

- 1) Text book(Exam Preparation Exercise)/Chapter5 & Question5:
a. b. c. d. e. f. g.
- 2) Text book(Exam Preparation Exercise)/Chapter5 & Question10:
- 3) Text book(Exam Preparation Exercise)/Chapter5 & Question12:
- 4) Text book(Exam Preparation Exercise)/Chapter5 & Question13:
- 5) Text book(Exam Preparation Exercise)/Chapter5 & Question14:
- 6) Text book(Exam Preparation Exercise)/Chapter5 & Question15:

True or false?

- 7) If the code fragment
- ```

if (a >= 10)
 if (a < 20)
 a = a + 2;
 else
 a = a + 1;

```

is indented according to the manner in which it is executed, the correct indentation is

```

if (a >= 10)
 if (a < 20)
 a = a + 2;
else
 a = a + 1;

```

8) Use the Unix compiler output below to identify the 3 errors.

```
syn4.cxx:18:16: warning: multi-character character constant
syn4.cxx: In function 'int main()':
syn4.cxx:14: error: 'else' without a previous 'if'
syn4.cxx:16: error: 'numm' was not declared in this scope
```

//If-Then-Else Statements

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

```
int main()
{
 int num = 10;
 if(num >= 10 && num <= 100);
 if(num > 11)
 cout << num + 1 << endl;
 else
 cout << (num - 1) << endl;
 else
 if(num == 0)
 cout << numm << endl;
 else
 cout << 'BUG!' << endl;

 return 0;
}
```

**9) What is the output of the following program?**

If “?” is replaced with the following number what is the output.

15, 7, 5, 50

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

```
int main()
{
 int num = ?;
 if (num >= 10 && num <= 100)
 if (num > 50)
 cout << num + 1 << endl;
 else
 cout << num - 1 << endl;
 else
```

```

 if (num == 5)
 cout << num << endl;
 else
 cout << "OK!" << endl;

 return 0;
 }

```

Output:

```



```

```

#include <iostream>
#include <fstream>
#include <iomanip>

using namespace std;

const int MAXNUM = 100;
const int MINNUM = 0;

int main()
{
 ofstream outFile;
 ifstream inFile;

 outFile.open("out.data");
 inFile.open("in.data");

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

 int num1, num2, max;
 float avg;

 outFile << "~~~ Two Numbers ~~~" << endl << endl;
 outFile << "Num1" << setw(10) << "Num2" << setw(10) << "MAX"
 << setw(10) << "AVG" << endl;
 outFile << "----" << setw(10) << "----" << setw(10) << "---" << setw(10)

```

```

 << "---" << endl;

inFile >> num1 >> num2;

outFile << num1 << setw(10) << num2;

if((num1 >= MINNUM && num1 <= MAXNUM) && (num2 >= MINNUM
 && num2 <= MAXNUM))
{
 if (num1 >= num2)
 max = num1;
 else
 max = num2;

 avg = float(num1 + num2)/2.0;

 outFile << setw(11) << max << setw(13) << avg << endl << endl;

}
else

outFile << setw(20) << "*** Invalid data" << endl << endl;

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

return 0;
}

```