**Loops Lab 2**

**Type in Word. Work with a partner and submit ONE COPY per pair. Include the following at the top of your submission:**

**Partner 1: Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**role (driver or navigator) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Partner 2: Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**role (driver or navigator)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Please note if one partner did not work on all problems:**

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#include <iostream>

using namespace std;

int main()

{

int num;

cout << "Counting …" << endl;

for (num = 0; num <= 5; num++)

{

cout << num << endl;

}

cout << “final value of num is “ << num << endl;

return 0;

}

 1.      Type in the above program as count.cpp. Add a comment to include your name and date. Compile and run.

2.      Explain the final value of num.

3.      Modify the program to count from **1 to 10** (rather than **0** to **5**).Compile and run.

4.      Turn in a copy of the program and output – try and fit on one page.

 #include <iostream>

using namespace std;

int main()

{

      int hour;

int min;

      for (hour = 1; hour <= 12; hour++)

      {

            for (min = 0; min <= 59; min++)

            {

                  cout << hour << ":" << min << "AM" << endl;

            }

      }

      return 0;

}

1.      Type in the above program as time.cpp. Add a comment to include your name and date. Compile and run.

2.      What is the bug or logic error in the above program? Add the lines to fix it.

3.      This is an example of \_\_\_\_\_\_\_\_\_\_\_\_ for loops.

4.      How many total times does the outer loop execute?

5.      How many total times does the inner loop execute?

6.      Turn in a copy of the final program and output – just the first and last hours are sufficient.