**CMSC132 Spring 2014 Quiz #4, Duration 20 Minutes**

**Total Pts: (30 pts)**

**Name (last name followed by first name):**

**Student ID:**

1. Define a class called **PrintEven** that:
   1. Implements the Runnable interface.
   2. It has a constructor that takes two integer parameters called start and end.
   3. Defines a run method that prints the even values that exist between start and end.

Answer:

**public class PrintEven implements Runnable {**

**private int start, end;**

**public PrintEven(int start, int end) {**

**this.start = start;**

**this.end = end;**

**}**

**public void run() {**

**for (int i = start; i <= end; i++) {**

**if (i % 2 == 0) {**

**System.*out*.println(i);**

**}**

**}**

**}**

**}**

1. Define the body of a main() method that creates two threads using the PrintEven class. One thread will print even values between 2 and 9, and the second one between 100 and 120. The message “Done” will be printed once the two threads have finished.

Answer:

**Thread t1 = new Thread(new PrintEven(2, 9));**

**Thread t2 = new Thread(new PrintEven(100, 120));**

**t1.start();**

**t2.start();**

**try {**

**t1.join();**

**t2.join();**

**} catch (InterruptedException e) {**

**System.*out*.println("Error");**

**}**

**System.*out*.println("Done");**