## CSC 205 Review Homework for Course Portfolio

System.out.println(rainbow[4]);

1. Give the declarations needed to do each of the following: a. A 24-element double array double[][] number = new double[23][23]; b. A 500-element int array int[] number = new int[499]; for (int i = 0; i < 499; i++) number[i] = (int) (Math.random()\*100) + 1;System.out.println(Arrays.toString(number)); c. A 50-element array of string objects String[] objects = new String [50]; // objects[0] = ; // ... // objects[49] = ; System.out.print(Arrays.toString(objects)); d. A 10-element char array char[] character = new char[] {'a','b','c','d','e','f','q','h','i','j'}; String print = new String(character); System.out.println(print); 2. Given the declarations: final int SIZE = 10; int[] count = new int[SIZE]; String[] rainbow = {"BLUE", "RED", "GREEN", "RED", "GREEN"}; Write code fragments (not a complete method) to do the following tasks: a. Set count to all zeroes int count = 0; // answer for (int i = 0; i < count.length; i++)</pre> count[i] = 0;b. Change the second element in rainbow to "WHITE" rainbow[1] = "WHITE"; System.out.print(rainbow[1]); c. Count the number of times "GREEN" appears in rainbow for (int i = 0; i < rainbow.length; i++)</pre> if (rainbow[i].equals("GREEN")) count++; System.out.print(count); d. Print out all the strings in rainbow on separate lines System.out.println(rainbow[0]); System.out.println(rainbow[1]); System.out.println(rainbow[2]); System.out.println(rainbow[3]);

e. Sum the values in count

- 3. Write a code segment (not a complete method) to do each of the following:
  - a. Declare a two-dimensional int array named table with 4 rows and 3 columns.

b. Find the sum of the table array. Assume it has already been initialized.

// answer
int sum = 0;
for (int row = 0; row < table.length; row++)
 for (int col = 0; col < table[0].length; col++)</pre>

4. Given the following declarations:

```
final int NUM_STUDENTS = 100;
boolean[] failing = new boolean[NUM STUDENTS];
```

sum += table[row][col];

Write a Java class method that initialized all the components of the failing array to false. Think about whether your method should be void or value-returning and use the appropriate one. Give a sample call to your method.