```
1 import java.util.Arrays;
 2 import java.util.OptionalDouble;
 4 public class week3
 6
      public static void main(String[] args)
 7
          int [] age = {3, 9, 23, 23};
 8
 9
          //first value of array minus last value of array
10
          System.out.println(age[0]-(age[age.length-1]));
11
12
13
          //average sum of array
          int sum = 0;
14
15
          int length = age.length;
          int average = sum/length;
16
17
          for (int i = 0; i < age.length; i++) {
18
19
20
21
              System.out.println (average);
22
23
24
25
26
          //string array of names
          String [] names = ["Sam", "Tommy", "Tim", "Sally", "Buck", "Bob"];
27
28
29
30
          //counts all of the characters in the string[]
31
          sum=0;
32
          for (int i = 0; i < names.length; i++) {</pre>
33
34
35
          System.out.println ("Characters in all the names togeather "+sum";
36
37
38
          //average the characters in each name length
39
               System.out.println ("The average characters in the string " +average);
40
41
42
43
          //concatenate the names together
               String namef = "";
44
               for (int i = 0; i < names.length; i++)</pre>
45
                   namef += names[i] + ", ";
46
47
                   System.out.println (namef);
48
49
50
51
          //access the last element of an array
52
               System.out.println ("Last element "+names[names.length - 1]);
53
54
          //access the first element of an array
55
               System.out.println("First element "+names[0]);
56
57
          //new array of nameLengths = names array
58
               int [] nameLengths = new int[names.length];
               for (int i = 0; i < names.length; i++)</pre>
59
```

```
60
 61
 62
           //sum of all of the elements in the array
 63
               sum = 0;
 64
               for (int i = 0; i < nameLengths.length; i++)</pre>
 65
 66
               System.out.println |"Sum of elements in the nameLengths array "
 67
 68
 69
 70
               // print out the method below dupWord at n times
 71
               int n = 7;
               System.out.println(dupWord("Hello " , n));
 72
 73
 74
               //print out string fullName method
               String firstName = "Terra",
 75
 76
               String lastName = "Ray",
 77
               String wholeName = fullName(firstName, lastName);
 78
               System.out.println (wholeName);
 79
 80
 81
 82
 83
 84
               int [] ages = {3, 9, 23, 123};
 85
               System.out.println("100 greater " + practice(ages));
 86
               double [] dates = {1.2, 2.7, 127.2};
 87
 88
               System.out.println ("Sum of double dates: "+ practice2(dates));
 89
 90
               double [] dates1 = {1.4, 3.7, 28.2};
 91
               System.out.println ("is second array greater: " + isFirstGreater (dates,
 92
 93
 94
 95
       //method to repeat returned word (string), n (int) number of times
 96
       public static String dupWord(String word, int n)
 97
           String dupWord = "";
           for (int i = 0; i \le n; i++)
 98
 99
               dupWord += word;
100
101
           return "dupWord method: " + dupWord;
102
103
       // method for two strings
104
105
       public static String fullName(String x, String y)
        return x + " " + y;
106
107
108
109
       //Write a method that takes an array of int and returns true if
110
111
       //the sum of all the ints in the array is grater than 100.
112
       public static boolean practice(int [] arr
113
           int sum = 0;
114
           for (int i = 0; i < arr.length; i++) {</pre>
115
               sum += arr[i];
116
117
           return sum > 100;
```

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