```
1package assignement0304;
3 public class arraysandMethods {
      public static void main(String[] args) {
5
          // TODO Auto-generated method stub
6
7// 1.a
          int[] ages= {3, 9, 23, 64, 2, 8, 28, 93, 90};
8
9
          int newAges = ages[ages.length-1]-ages[0];
10
11
          System.out.println(newAges);
12// 1.b
13
          System.out.println(newAges);
14
15
          //1.c first, initialize the integer with value "0"
16
          int totalAges = 0;
17
          for (int i: ages) {
18
              totalAges+= i;
19
20
21
          double averageAges = (double) totalAges / ages.length;
22
          System.out.println("The average age is: " + averageAges);
23
24//2.a
25
          String[] names = {"Sam", "Tommy", "Tim", "Sally", "Buck", "Bob"};
26
27
          //first, initialize the integer with value "0"
28
          int totalNumberOfLetter = 0;
29
          for (String name : names) {
30
              totalNumberOfLetter+= name.length();
31
32
33
          double averageNumberOfLetter = (double) totalNumberOfLetter / names.length;
34
          System.out.println("The average number of letter is: " + averageNumberOfLetter);
35
36// 2.b
37
38
          String concatinatedNames = " ";
39
          for (String name : names) {
40
              concatinatedNames+= name + " ";
41
          }
42
43
44
          System.out.println(concatinatedNames);
45
          //3.
46
          // to find the last element
47
              //int nameOfArray = nameOfArray[nameOfArray.length-1;
48
      //4.
49
          //to find the first element
50
              // int nameOfArray = nameOfArray[0];
51
      //5.
52
53
              int[] nameLengths = new int [names.length];
54
55
              for (int i = 0; i < names.length; i++) {</pre>
56
                  nameLengths[i] = names[i].length();
57
```

```
58
 59
           }
       //6.
 60
 61
                int sumofelements = 0;
                for (int i = 0; i < nameLengths.length; i++) {</pre>
 62
 63
                    sumofelements += nameLengths[i];
 64
           }
 65
                System.out.println("The Sum of elements: " + sumofelements);
 66
 67
 68
 69
           }
 70
       //7.
 71
                public static String concatenateWord(String word, int n) {
 72
                    String result = "";
 73
                for (int i=0; i<n; i++) {</pre>
 74
                    result += word;
 75
           }
 76
                return result;
 77 }
 78
       //8.
 79
 80
           public static String fullName(String firstName, String lastName) {
                return firstName + " " + lastName;
 81
 82
 83
           }
 84
 85
       //9.
 86
           public static boolean intsArray(int[] nums) {
 87
                int sum = 0;
 88
                for (int num : nums) {
 89
                    sum += num;
 90
 91
                return sum > 100;
 92
           }
 93
 94
       // 10.
 95
           public static double avgElements(double[] nums) {
 96
                double sum = 0;
 97
                for (double num : nums) {
 98
                    sum += num;
 99
                }
100
101
                return sum / nums.length;
102
103
           }
104
105
106
       // 11.
           public static boolean doubleArray(double[] first, double[] second) {
107
108
                int totalfirst = 0;
109
                int totalsecond = 0;
110
                for (double i : first) {
                    totalfirst += i;
111
112
113
                for (double i : second) {
114
                    totalsecond += i;
```

144