- What index value does the third element of an array have?
  The third element = the index number 2.
- Write the declaration for an array named quantities that stores 20 integers.
  int[] quantities = new int[20];
- Write the declaration for an array named heights storing the numbers 1.65, 2.15, and 4.95.
  double[] heights = new double[3];
  heights[0] = 1.65;
  heights[1] = 2.15;
  heights[2] = 4.95;
- Write a for-each statement that displays the integer values stored in the array named grades.
  for (int grade: grades) {
        System.out.println(grade);
  }
- How does passing an entire array to a method differ from passing a single element of the array?
  Passing an entire array allows the array to change the original array while passing of the array only passes a copy, so the original remains unchanged.
- Why are offset array indexes required in some cases?
  Offset array indexes are needed to align zero-based arrays with specific requirements, such as 1-based indexing, working with subarrays, or simplifying calculations for clarity and efficiency.
- What output is displayed by the statements below?
  String name = "Elaine";
  System.out.println(name.charAt(3));

  The output ⇒ i