

For this exercise, follow the steps in document: **createNewJavaProject**

Use the following project, package and class names:

Project: **ArrayDemo**

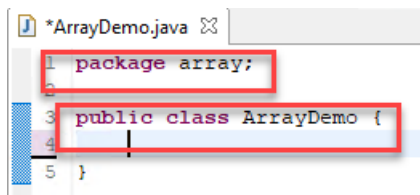
Package: **array**

Class: **ArrayDemo**

You should **ArrayDemo** have a copy of the source code.

The **ArrayDemo.java** class file will open in the **Eclipse editor** window. Notice the **constructs** package name.

In the main method, enter the code below



```
package array;

public class ArrayDemo {
    public static void main(String[] args) {
        int[] nums;           // declare an array of integers

        nums = new int[40];    // create an array of integers

        // assign a value to each array element and print
        for (int i = 1; i < nums.length; i++) { //An a
            nums[i] = i;           //assign the element to the
array
            int j = nums[i];       //get the value of the array
element
            int add10 = j + 10;    //add 10 to the array
element and assign it to int add10

            System.out.print(add10 + " ");    //Output add10, and
concatenate with a space
        }
        System.out.println();    //Print a new line

        System.out.println("String array");    //Output for formatting

        String[] strArray =
{"zeroth", "first", "second", "third", "forth", "fifth", "sixth", "seventh", "eighth",
"nineth"}; //New String array
```

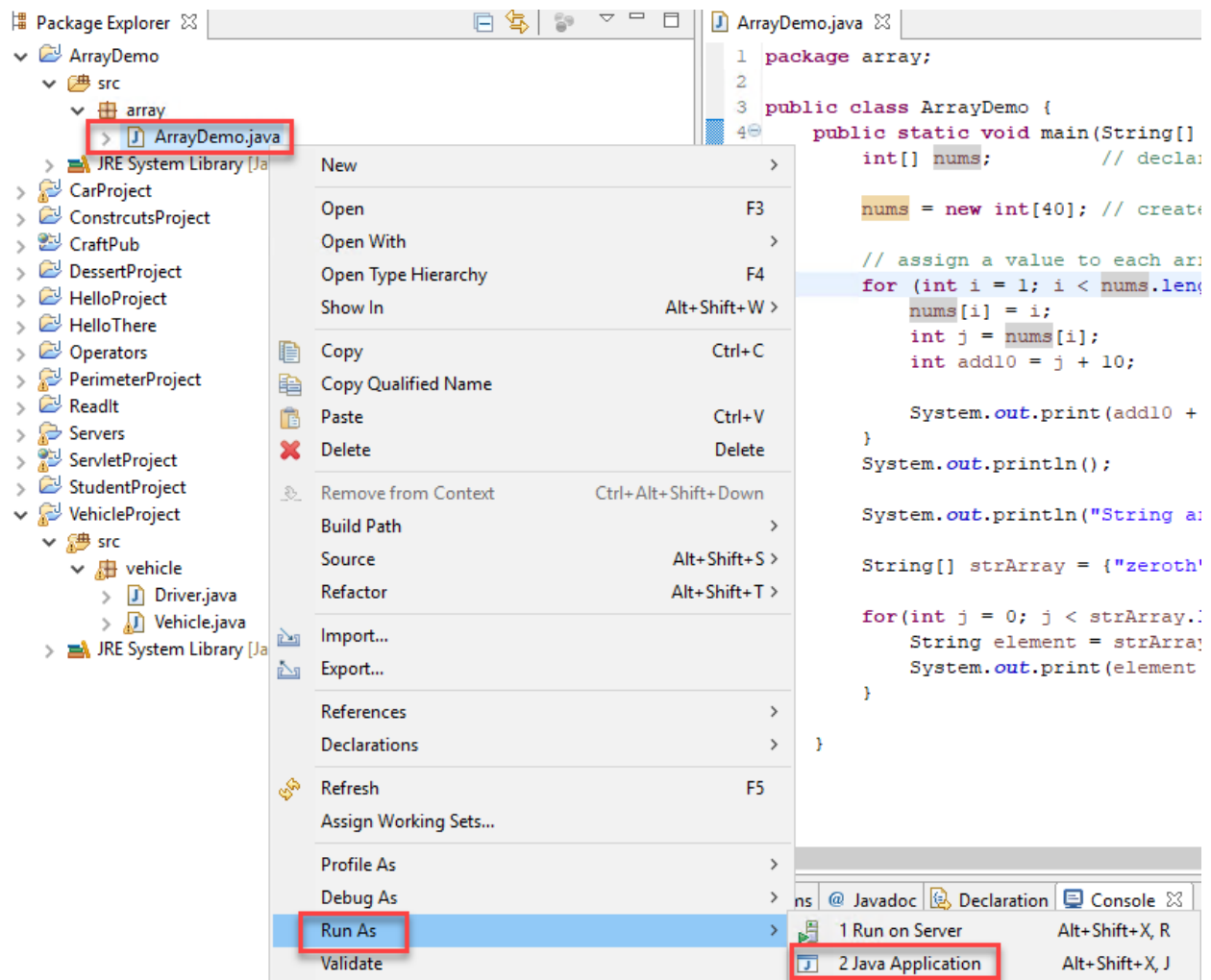
```

        for(int j = 0; j < strArray.length; j++){ //Iterate through
strArray
            String element = strArray[j]; //Assign array member to
int element
            System.out.print(element + " "); //Output element
concatenated with a space.
        }
    }
}

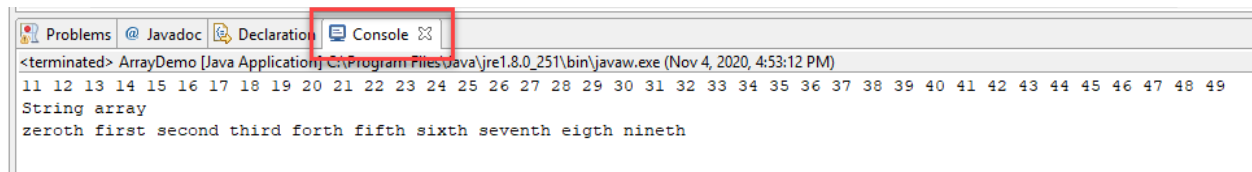
```

Run the application.

In the **ArrayDemo** project, select the **ArrayDemo.java** class file, right click, click **Run As -> Java Application**.



The output will appear in the **Console** window.



The screenshot shows an IDE's interface with a tab bar at the top containing 'Problems', 'Javadoc', 'Declaration', and 'Console'. The 'Console' tab is selected and highlighted with a red rectangle. Below the tab bar, the console output is displayed. The first line is a status message: '<terminated> ArrayDemo [Java Application] C:\Program Files\Java\jre1.8.0_251\bin\javaw.exe (Nov 4, 2020, 4:53:12 PM)'. The second line is a line number indicator from 11 to 49. The third line is the text 'String array'. The fourth line is the output of the program: 'zeroth first second third forth fifth sixth seventh eighth ninth'.

```
<terminated> ArrayDemo [Java Application] C:\Program Files\Java\jre1.8.0_251\bin\javaw.exe (Nov 4, 2020, 4:53:12 PM)
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
String array
zeroth first second third forth fifth sixth seventh eighth ninth
```