**Assisted Practice: 2.7 Arrays**

This section will guide you to:

* Create a Java project in your IDE
* Write a Java program to create arrays

This lab has three subsections, namely:

* + 1. Writing a program in Java to verify implementation of arrays
    2. Executing the program and verifying working of arrays
    3. Pushing the code to your GitHub repositories

**Step 2.7.1:** Writing a program in Java to verify implementation of arrays

There are two ways you can perform this step; you can create a new Java project, or you can create a new Java class in the existing project. It is preferable to create a new Java class in the existing project but feel free to explore the first option. The steps mentioned below will work once you create a project in Java.

* Open Eclipse
* *[Right click]* on the **src** folder of the project
* Select *New* -> *Java Class* -> Enter the filename (follow camelCasing)
* Execute the code below resolving the warning and errors due compatibility-related issues

**public** **class** arrayAssisted {

**public** **static** **void** main(String[] args) {

//single-dimensional array

**int** a[]= {10,20,30,40,50};

**for**(**int** i=0;i<5;i++) {

System.***out***.println("Elements of array a: "+a[i]);

}

//multidimensional array

**int**[][] b = {

{2, 4, 6, 8},

{3, 6, 9} };

System.***out***.println("\nLength of row 1: " + b[0].length);

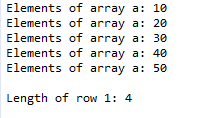
}

}

**Step 2.7.2:** Executing the program and verifying the working of arrays

Before you execute the program, check for syntactical corrections. If no errors are found, follow the steps mentioned below:

* ***[Right click]*** in the program space
* Select *Run As Java Application*



**Step 2.7.3:** Pushing the code to your GitHub repositories

* Open your command prompt and navigate to the folder where you have created your files.

**cd <folder path>**

* Initialize your repository using the following command:

**git init**

* Add all the files to your git repository using the following command:

**git add .**

* Commit the changes using the following command:

**git commit . -m “Changes have been committed.”**

* Push the files to the folder you initially created using the following command:

**git push -u origin master**