**Assisted Practice: 4.1 Array Rotation**

* Write a program in Java to right rotate an array by 5 steps
* Use Eclipse (the popular text editor for Java programs)
* Push code to Git

This lab has three subsections, namely:

* + 1. Creating a new project in Eclipse
    2. Writing the program in Java for array rotation
    3. Pushing the code to your GitHub repositories

**1.Writing a program in Java for array rotation**

class RotateRight {

public static void main(String[] args) {

//Initialize array

int [] arr = new int [] {1, 2, 3, 4, 5};

//n determine the number of times an array should be rotated.

int n = 3;

//Displays original array

System.out.println("Original array: ");

for (int i = 0; i < arr.length; i++) {

System.out.print(arr[i] + " ");

}

//Rotate the given array by n times toward right

for(int i = 0; i < n; i++){

int j, last;

//Stores the last element of array

last = arr[arr.length-1];

for(j = arr.length-1; j > 0; j--){

//Shift element of array by one

arr[j] = arr[j-1];

}

//Last element of array will be added to the start of array.

arr[0] = last;

}

System.out.println();

//Displays resulting array after rotation

System.out.println("Array after right rotation: ");

for(int i = 0; i< arr.length; i++){

System.out.print(arr[i] + " ");

}

}

}

**Output:**

Original array:

10 20 30 40 50

Array after right rotation:

30 40 50 10 20