Phase 1 Practice Project – Assisted Practice

1 . Write a program in java to right rotate an array by 5 steps.

Source Code:

package rightRotationArray;

public class RightRotateArray {

public static void main(String[] args) {

int[] originalArray = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};

int stepsToRotate = 5;

int[] rotatedArray = rightRotate(originalArray, stepsToRotate);

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

printArray(originalArray);

System.out.println("\nRotated Array: ");

printArray(rotatedArray);

}

public static int[] rightRotate(int[] arr, int steps) {

int length = arr.length;

int[] rotatedArray = new int[length];

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

rotatedArray[(i + steps) % length] = arr[i];

}

return rotatedArray;

}

public static void printArray(int[] arr) {

for (int num : arr) {

System.out.print(num + " ");

}

}

}

OUTPUT:

