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Batch: 1154 Homework: Array

## **Array of primitive data type:**

```
package array;
public class PrimitiveArray {
    public static void main(String[] args) {
        // Declaration and initialization of an array of integers
        int[] numbers = { 1, 2, 3, 4, 5 };
        // Accessing elements of the array
         System.out.println("Elements of the array:");
        for (int i = 0; i < numbers.length; i++) {</pre>
             System.out.println("Element at index " + i + ": " +
numbers[i]);
        }
        // Modifying an element in the array
         numbers[2] = 10;
         numbers[1] = 54;
        // Displaying the modified array
         System.out.println("\nModified array:");
        for (int i = 0; i < numbers.length; i++) {</pre>
             System.out.println("Element at index " + i + ": " +
numbers[i]);
```

## Array of reference data type:

```
package array;
// Define a class for objects in the array
class Student {
    String name;
    int age;
    int rollNum;
    double cqpa;
    // Constructor
    public Student(String name, int age, int rollNum, double cgpa) {
        this.name = name;
        this.age = age;
        this.rollNum = rollNum;
        this.cgpa = cgpa;
public class ReferenceArray {
    public static void main(String[] args) {
        // Create an array of Student objects
        Student[] students = new Student[3];
        // Initialize individual objects in the array
        students[0] = new Student("Ajay", 20, 101, 3.8);
        students[1] = new Student("Sam", 22, 102, 3.5);
        students[2] = new Student("Sagar", 21, 103, 3.9);
```