

ArrayList Operations

```
import java.util. ArrayList;
```

```
public class ArrayListOperations {
```

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

```
        ArrayList< Integer > list = new ArrayList<>();
```

```
        list.add(10);
```

```
        list.add(20);
```

```
        list.add(30);
```

```
        list.add(40);
```

```
        list.add(50);
```

```
        System.out.println(list);
```

```
        list.remove(2);
```

```
        System.out.println(list);
```

```
        int searchElement = 40;
```

```
        int index = list.indexOf (searchElement);
```

```
        if (index != -1) {
```

```
            System.out.println (searchElement + " found at index " + index);
```

```
        } else {
```

```
            System.out.println (searchElement + " not found");
```

```
        }
    }
```

## Hash Set Operations:-

```
import java.util.*; HashSet<String> names = new HashSet<String>(7);
names.add("Sohib");
names.add("reelbga");
names.add("Dejoy");
names.add("Bob");
System.out.println(names);
names.remove("reelbga");
System.out.println(names);
String searchName = "Dejoy";
if (names.contains(searchName)) {
    System.out.println(searchName);
}
System.out.println("Hash set size");
for (String name : names) {
    System.out.println(name);
}
```

### ③ Priority Queue Operations.

```
import java.util.*; priorityQueue;
```

```
public class priorityQueueOperations {
```

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

```
        priorityQueue < String, Integer > empPriority;
```

```
        employeeQueue.add("Sohn");
```

```
        employeeQueue.add("Alicia");
```

```
        employeeQueue.add("Bob");
```

```
        employeeQueue.add("Paisy");
```

```
        System.out.print(employeeQueue);
```

```
        String highestPriorityEmployee = employeeQueue.
```

```
        System.out.println(employeeQueue);
```

```
    }
```

```
}
```



#### ④ HashMap Operations.

```
import java.util.HashMap;
```

```
public class HashMapOperations {
```

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

```
        HashMap<Integer, String> students = new HashMap<>();
```

```
        students.put(101, "John");
```

```
        students.put(102, "Alice");
```

```
        students.put(103, "Bob");
```

```
        students.put(104, "Daisy");
```

```
        System.out.println(students);
```

```
        int searchID = 103;
```

```
        if (students.containsKey(searchID)) {
```

```
            System.out.println(students.get(searchID));
```

```
        } else {
```

```
            System.out.println("Search ID not found");
```

```
    }
```

```
        students.remove(102);
```

```
        System.out.println(students);
```

```
        System.out.println("HashMap:");
```

```
        System.out.println("Size: " + students.size() + " Entries: " + students.entrySet().size());
```

```
    }
```

```
}
```

```
}
```