### 1. String Methods (with Output)

```
String s = "ZohoJava";
                           // Output: 8
s.length();
s.charAt(2);
                           // Output: 'h'
s.indexOf("Java");
                         // Output: 4
s.substring(0, 4);
                         // Output: "Zoho"
s.toLowerCase();
                         // Output: "zohojava"
s.toUpperCase();
                         // Output: "ZOHOJAVA"
s.equals("ZohoJava");
                          // Output: true
s.equalsIgnoreCase("zohojava");// Output: true
s.contains("Java");
                          // Output: true
s.replace("Java", "DSA"); // Output: "ZohoDSA"
                          // Output: true
s.startsWith("Zo");
s.endsWith("va");
                         // Output: true
                         // Output: "ZohoJava" (if spaces)
s.trim();
                         // Output: ["Z", "h", "Java"]
s.split("o");
```

#### 2. StringBuilder / StringBuffer (with Output)

# 3. Math Methods (with Output)

```
Math.max(10, 20);
                             // Output: 20
Math.min(10, 20);
                             // Output: 10
                             // Output: 5
Math.abs(-5);
Math.sqrt(16);
                             // Output: 4.0
Math.pow(2, 3);
                             // Output: 8.0
Math.round(2.6);
                             // Output: 3
                             // Output: 2.0
Math.floor(2.9);
Math.ceil(2.1);
                             // Output: 3.0
Math.random();
                              // Output: (any number between 0.0 and 1.0)
```

#### 4. Arrays Class (with Output)

# 5. Collections Class (with Output)

# 6. List Methods (with Output)

```
list.add("Zoho");
                            // Output: ["Zoho"]
list.add("Java");
                            // Output: ["Zoho", "Java"]
list.get(1);
                            // Output: Java
                           // Output: ["Zoho", "DSA"]
list.set(1, "DSA");
list.remove("DSA");
                            // Output: ["Zoho"]
list.contains("Zoho");
                           // Output: true
list.indexOf("Zoho");
                            // Output: 0
list.clear();
                            // Output: []
```

# 7. Set Methods (with Output)

#### 8. Map Methods (with Output)

```
map.put(1, "Zoho");
                        // Output: {1=Zoho}
map.put(2, "Java");
                        // Output: {1=Zoho, 2=Java}
                        // Output: Zoho
map.get(1);
map.containsKey(2);
                        // Output: true
// Output: {1=Zoho}
map.remove(2);
                        // Output: [1]
map.keySet();
map.values();
                        // Output: [Zoho]
map.entrySet();
                        // Output: [1=Zoho]
map.size();
                        // Output: 1
```

# 9. Queue / Deque (with Output)

```
Queue:
q.add(1);
                              // Queue: [1]
q.offer(2);
                              // Queue: [1, 2]
                              // Output: 1
q.peek();
q.poll();
                              // Queue after poll: [2]
                              // Output: false
q.isEmpty();
Deque:
                            // Deque: [10]
// Deque: [10, 20]
dq.addFirst(10);
dq.addLast(20);
dq.removeFirst();
                              // Output: 10
dq.removeLast();
                              // Output: 20
```

## 10. Wrapper Classes (with Output)

#### 11. Conversions (with Output)