



## TASK-2

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Main.java


```
1- public class ArrayIndexOutOfBoundsExceptionExample {
2-     public static void main(String[] args) {
3-
4-         int[] numbers = new int[5];
5-
6-         try {
7-
8-             int value = numbers[10];
9-             System.out.println("This line will not be executed.");
10-        }
11-        catch (ArrayIndexOutOfBoundsException e) {
12-
13-            System.out.println("ArrayIndexOutOfBoundsException: " + e
14-                               .getMessage());
15-        }
16-    }
17-}
```


Run

Output

```
java -cp /tmp/IhXegX0wff ArrayIndexOutOfBoundsExceptionExample
ArrayIndexOutOfBoundsException: Index 10 out of bounds for length 5
```

Clear

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Main.java

```
1- public class PrintArrayElements {
2-     public static void main(String[] args) {
3-
4-         int[] numbers = new int[100];
5-
6-         for (int i = 0; i < 100; i++) {
7-             numbers[i] = i + 1;
8-         }
9-
10-        System.out.println("Array elements from 1 to 100:");
11-        for (int i = 0; i < 100; i++) {
12-            System.out.print(numbers[i] + " ");
13-        }
14-    }
15- }
16-}
```

Run

Output

```
java -cp /tmp/IhXegX0wff PrintArrayElements
Array elements from 1 to 100:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58
59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
```

Clear

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Main.java

```
1- import java.util.ArrayList;
2- class Book {
3   int bookid;
4   String bookname;
5   String authorname;
6
7- Book (int bookid, String bookname, String authorname) {
8   this.bookid = bookid;
9   this.bookname = bookname;
10  this.authorname = authorname;
11 }
12 }
13- public class Array {
14- public static void main(String[] args) {
15  ArrayList<Book> books= new ArrayList<>();
16  books.add(new Book (1, "Book1", "Author1"));
17  books.add(new Book (2, "Book2", "Author2"));
18  books.add(new Book (3, "Book3", "Author3"));
19
20- for (Book book : books) {
21  System.out.println("Book ID: " + book.bookid);
22  System.out.println("Book Name:" + book.bookname);
23  System.out.println("Author Name: " + book.authorname);
24  System.out.println();
25 }
26 }
```

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Main.java

```
1- import java.util.ArrayList;
2- import java.util.Collections;
3- import java.util.List;
4
5- public class ReverseListExample {
6-   public static void main(String[] args) {
7
8     List<String> stringList = new ArrayList<>();
9     stringList.add("Apple");
10    stringList.add("Banana");
11    stringList.add("Cherry");
12
13
14    Collections.reverse(stringList);
15
16
17    System.out.println("Reversed List: " + stringList);
18  }
19 }
```

Output

```
java -cp /tmp/0tkMkyH2FC ReverseListExample
Reversed List: [Cherry, Banana, Apple]
```

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Main.java

Run

Clear

```
1 import java.util.ArrayList;
2
3 public class EvenSumCalculator {
4     public static void main(String[] args) {
5
6         ArrayList<Integer> numbers = new ArrayList<>();
7         numbers.add(1);
8         numbers.add(2);
9         numbers.add(3);
10        numbers.add(4);
11        numbers.add(5);
12
13        int evenSum = calculateEvenSum(numbers);
14        System.out.println("Sum of even numbers: " + evenSum);
15    }
16
17    public static int calculateEvenSum(ArrayList<Integer> numbers) {
18        int evenSum = 0;
19        for (int number : numbers) {
20            if (number % 2 == 0) {
21                evenSum += number;
22            }
23        }
24    }
25 }
```

Output

Clear

```
java -cp /tmp/0tkdMkyH2FC EvenSumCalculator
Sum of even numbers: 6
```