```
Program 1:
public class ArrayOutOfBoundsExample {
  public static void main(String[] args) {
    int[] array = {1, 2, 3, 4, 5};
    try {
      int element = array[10];
       System.out.println("Element at index 10: " + element);
    } catch (ArrayIndexOutOfBoundsException e) {
       System.out.println("Array index out of bounds exception occurred.");
       e.printStackTrace();
    }
  }
}
Program 2:
public class PrintArray {
  public static void main(String[] args) {
    int[] numbers = new int[100];
    for (int i = 0; i < numbers.length; i++) {
       numbers[i] = i + 1;
    }
    for (int number : numbers) {
      System.out.println(number);
    }
  }
}
Program 3:
import java.util.ArrayList;
```

```
class Book {
  int bookld;
  String bookName;
  String authorName;
public Book(int bookId, String bookName, String authorName) {
    this.bookId = bookId;
    this.bookName = bookName;
    this.authorName = authorName;
  }
  public String toString() {
    return "Book ID: " + bookId + ", Book Name: " + bookName + ", Author Name: " + authorName;
  }
}
public class Main {
  public static void main(String[] args) {
    ArrayList<Book> books = new ArrayList<>();
    books.add(new Book(1, "Book 1", "Author 1"));
    books.add(new Book(2, "Book 2", "Author 2"));
    books.add(new Book(3, "Book 3", "Author 3"));
 for (Book book : books) {
      System.out.println(book);
    }
  }
}
Program 4:
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
public class Main {
```

```
public static void main(String[] args) {
    List<String> strings = new ArrayList<>();
    strings.add("one");
    strings.add("two");
    strings.add("three");
    Collections.reverse(strings);
    System.out.println("Reversed List:");
    for (String str : strings) {
      System.out.println(str);
    }
  }
}
Program 5:
import java.util.ArrayList;
public class Main {
  public static void main(String[] args) {
    ArrayList<Integer> numbers = new ArrayList<>();
    numbers.add(1);
    numbers.add(2);
    numbers.add(3);
    numbers.add(4);
    numbers.add(5);
    int sum = 0;
    for (int num: numbers) {
      if (num % 2 == 0) {
         sum += num;
      }
    }
 System.out.println("Sum of even numbers: " + sum);
```

}