1. Write a program to reverse a given List of strings.

Solution:

import java.util.ArrayList;

import java.util.Collections;

import java.util.List;

public class ReverseStringList {

public static void main(String[] args) {

List<String> stringList = new ArrayList<>();

stringList.add("Hello");

stringList.add("World");

stringList.add("OpenAI");

stringList.add("Java");

System.out.println("Original List: " + stringList);

Collections.reverse(stringList);

System.out.println("Reversed List: " + stringList);

}

}

Output:

Original List: [Hello, World, OpenAI, Java]

Reversed List: [Java, OpenAI, World, Hello]

2. Write a Java program that calculates the sum of all even numbers present in an ArrayList of integers.

Solution:

import java.util.ArrayList;

public class SumOfEvenNumbers {

public static void main(String[] args) {

ArrayList<Integer> numbers = new ArrayList<>();

numbers.add(10);

numbers.add(5);

numbers.add(14);

numbers.add(7);

numbers.add(8);

numbers.add(20);

int sum = 0;

for (int num : numbers) {

if (num % 2 == 0) {

sum += num;

}

}

System.out.println("Sum of even numbers: " + sum);

}

}

Output:

S--um of even numbers: 52