Task 1: Shuffle an array

import java.util.Arrays;

import java.util.Collections;

import java.util.List;

public class ShuffleArray {

public static void main(String[] args) {

Integer[] arr = {1, 2, 3, 4, 5, 6, 7};

List<Integer> list = Arrays.asList(arr);

Collections.shuffle(list);

System.out.println("Shuffled Array: " + Arrays.toString(list.toArray()));

}

}

Task 2: Convert Roman numeral to integer

import java.util.Scanner;

public class RomanToInteger {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a Roman Numeral (e.g., IX): ");

String romanNumeral = scanner.next();

int intValue = romanToInteger(romanNumeral);

System.out.println("Roman Numeral " + romanNumeral + " is equivalent to " + intValue);

}

public static int romanToInteger(String s) {

// Implement the Roman to Integer conversion logic here

}

}

Task 3: Check if a sentence is a pangram

import java.util.Scanner;

public class PangramChecker {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a sentence to check if it's a pangram: ");

String sentence = scanner.nextLine().toLowerCase();

boolean isPangram = isPangram(sentence);

if (isPangram) {

System.out.println("The sentence is a pangram.");

} else {

System.out.println("The sentence is not a pangram.");

}

}

public static boolean isPangram(String sentence) {

// Implement the pangram checking logic here

}

}