

1. Create an array with the values (1, 2, 3, 4, 5, 6, 7) and shuffle it.

```
import java.util.Random;

import java.util.Arrays;

public class ShuffleArray {

    public static void main(String[] args) {

        int[] array = {1, 2, 3, 4, 5, 6, 7};

        Random random = new Random();

        for (int i = array.length - 1; i > 0; i--) {

            int index = random.nextInt(i + 1);

            int temp = array[i];
            array[i] = array[index];
            array[index] = temp;

        }

        System.out.println(Arrays.toString(array));

    }

}
```

2. Enter a Roman Number as input and convert it to an integer. (Example: IX = 9)

```
import java.util.HashMap;

public class RomanToInteger {

    public static void main(String[] args) {

        String romanNumeral = "XIV"; // Replace this with your Roman numeral

        int result = romanToInt(romanNumeral);

        System.out.println("The integer equivalent of " + romanNumeral + " is: " + result);

    }

    public static int romanToInt(String s) {

        HashMap<Character, Integer> romanMap = new HashMap<>();

        romanMap.put('I', 1);
```

```

romanMap.put('V', 5);
romanMap.put('X', 10);
romanMap.put('L', 50);
romanMap.put('C', 100);
romanMap.put('D', 500);
romanMap.put('M', 1000);

int result = 0;
int prevValue = 0;

for (int i = s.length() - 1; i >= 0; i--) {
    int value = romanMap.get(s.charAt(i));
    if (value < prevValue) {
        result -= value;
    } else {
        result += value;
    }
    prevValue = value;
}
return result;
}
}

```

3. Check if the input is pangram or not. (A pangram is a sentence that contains all the alphabets from A to Z)

```

import java.util.HashSet;

public class PangramChecker {

    public static void main(String[] args) {

        String input = "abcdefghijklmnopqrstuvwxyz";

        if (isPangram(input)) {

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

```

```
    } else {  
        System.out.println("The input is not a pangram.");  
    }  
}  
  
public static boolean isPangram(String s) {  
    s = s.replaceAll(" ", "").toLowerCase();  
  
    HashSet<Character> charSet = new HashSet<>();  
  
    for (char c : s.toCharArray()) {  
        if (Character.isLetter(c)) {  
            charSet.add(c);  
        }  
    }  
  
    return charSet.size() == 26;  
}  
}
```