Q5. Write a program to check the input characters for uppercase, lowercase, number of digits and other characters. Display appropriate message.

public class checkChar {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a string: ");

String input = scanner.nextLine();

int upperCaseCount = 0;

int lowerCaseCount = 0;

int digitCount = 0;

int otherCharCount = 0;

// Iterate through each character in the input string

for (char ch : input.toCharArray()) {

if (Character.isUpperCase(ch)) {

upperCaseCount++;

} else if (Character.isLowerCase(ch)) {

lowerCaseCount++;

} else if (Character.isDigit(ch)) {

digitCount++;

} else {

otherCharCount++;

}

}

// Display the results

System.out.println("Uppercase letters: " + upperCaseCount);

System.out.println("Lowercase letters: " + lowerCaseCount);

System.out.println("Digits: " + digitCount);

System.out.println("Other characters: " + otherCharCount);

}

}