**Task 1**

public class task1 {

public static void main(String[] args) {

String str = "Welcome to CareerTuner";

int index = 5;

char ch = str.charAt(index);

System.out.println("Character at index " + index + ": " + ch);

}

}

**Task 2**

public class task2 {

public static void main(String[] args) {

String str = "java standard edition";

String[] words = str.split(" ");

StringBuilder capitalizedStr = new StringBuilder();

for (String word : words) {

capitalizedStr.append(Character.toUpperCase(word.charAt(0)))

.append(word.substring(1))

.append(" ");

}

System.out.println(capitalizedStr.toString().trim());

}

}

**Task 3**

public class task3 {

public static void main(String[] args) {

String str = "welcome to carrertuner";

String sequence = "career";

if (str.contains(sequence)) {

System.out.println("The string contains the sequence: " + sequence);

} else {

System.out.println("The string does not contain the sequence: " + sequence);

}

}

}

**Task 4**

public class task4 {

public static void main(String[] args) {

String str1 = "welcome to carrertuner";

String str2 = "tuner";

if (str1.endsWith(str2)) {

System.out.println("The string ends with: " + str2);

} else {

System.out.println("The string does not end with: " + str2);

}

}

}

**Task 5**

public class task5 {

public static void main(String[] args) {

String str = "welcome to career tuner";

String[] words = str.split(" ");

System.out.println("Number of words: " + words.length);

}

}

**Task 6**

public class task6 {

public static void main(String[] args) {

String str = "DR. AIT college";

StringBuilder capitals = new StringBuilder();

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

if (Character.isUpperCase(ch)) {

capitals.append(ch);

}

}

System.out.println("Capital letters: " + capitals.toString());

}

}

**Task 7**

public class task7 {

public static void main(String[] args) {

String str = "ait college";

int firstIndex = str.indexOf('l');

int secondIndex = str.indexOf('l', firstIndex + 1);

if (secondIndex != -1) {

str = str.substring(0, secondIndex) + Character.toUpperCase(str.charAt(secondIndex)) + str.substring(secondIndex + 1);

}

System.out.println(str);

}

}

**Task 8**

public class task8 {

public static void main(String[] args) {

String str = "Dr. AIT college";

String oldWord = "ait";

String newWord = oldWord.toUpperCase();

str = str.replace(oldWord, newWord);

System.out.println(str);

}

}