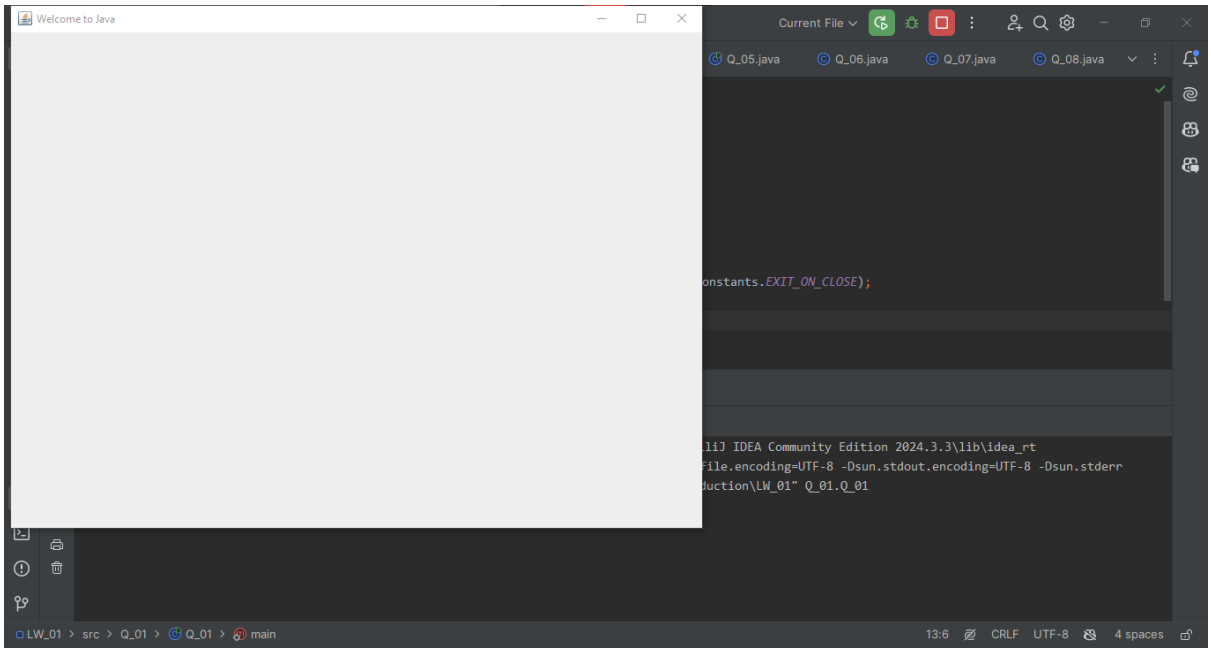
Worksheet 01

Q01:

Code:

```
package Q_01;
import javax.swing.*;

public class Q_01 {
    public static void main(String[] args) {
        JFrame sampleWindow;
        sampleWindow = new JFrame();
        sampleWindow.setSize(800,600);
        sampleWindow.setTitle("Welcome to Java");
        sampleWindow.setVisible(true);
        sampleWindow.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);

    }
}
```

Output:

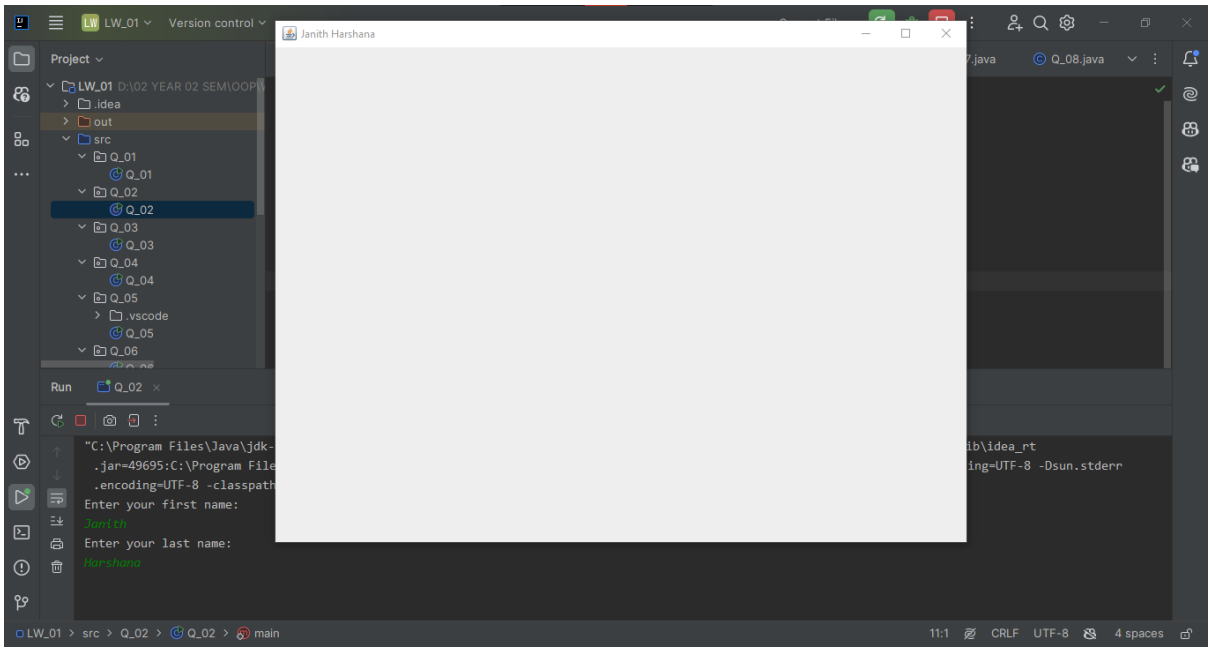


Q02:

Code:

```
package Q_02;
import javax.swing.*;
import java.util.*;

public class Q_02 {
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String firstName;
        System.out.println("Enter your first name:");
        firstName = scn.nextLine();

        String lastName;
        System.out.println("Enter your last name:");
        lastName = scn.nextLine();

        JFrame nameWindow;
        nameWindow = new JFrame();
        nameWindow.setSize(800,600);
        nameWindow.setTitle(firstName+" "+lastName);
        nameWindow.setVisible(true);
        nameWindow.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
    }
}
```

Output:

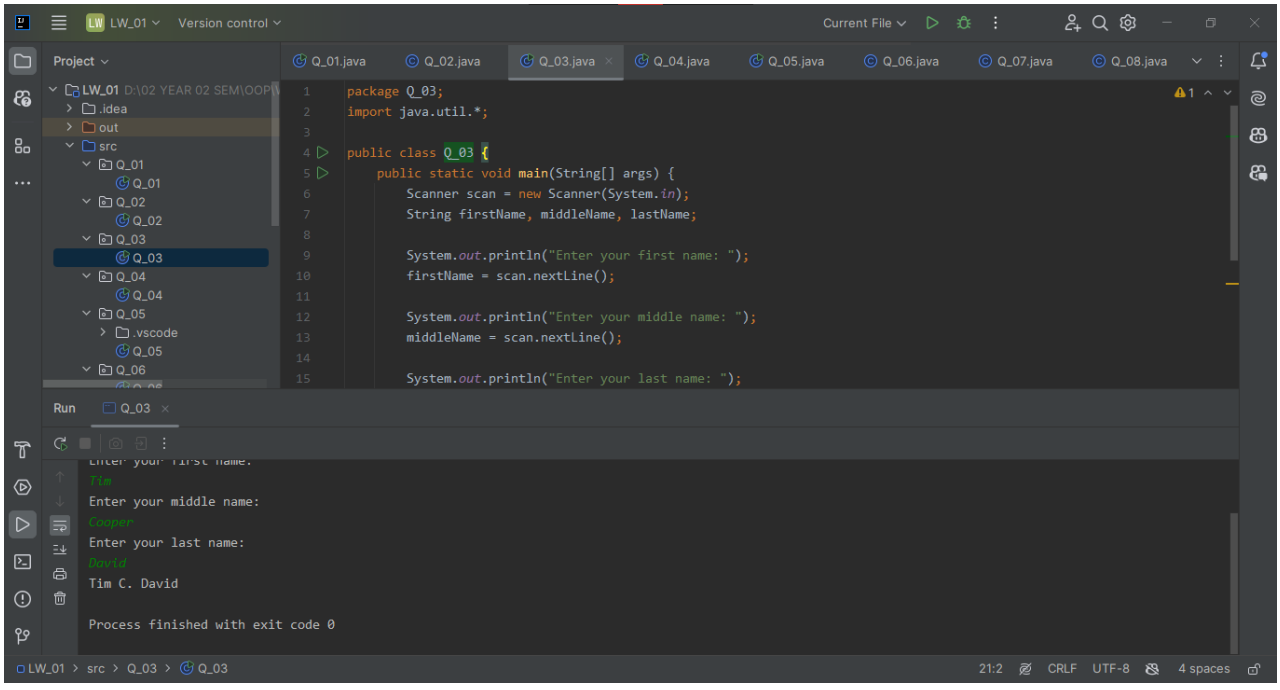


Q03:

Code:

```
package Q_03;
import java.util.*;

public class Q_03 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        String firstName, middleName, lastName;

        System.out.println("Enter your first name: ");
        firstName = scan.nextLine();

        System.out.println("Enter your middle name: ");
        middleName = scan.nextLine();

        System.out.println("Enter your last name: ");
        lastName = scan.nextLine();

        System.out.println(firstName+" "+middleName.substring(0,1)+". "+lastName);

    }
}
```

Output:

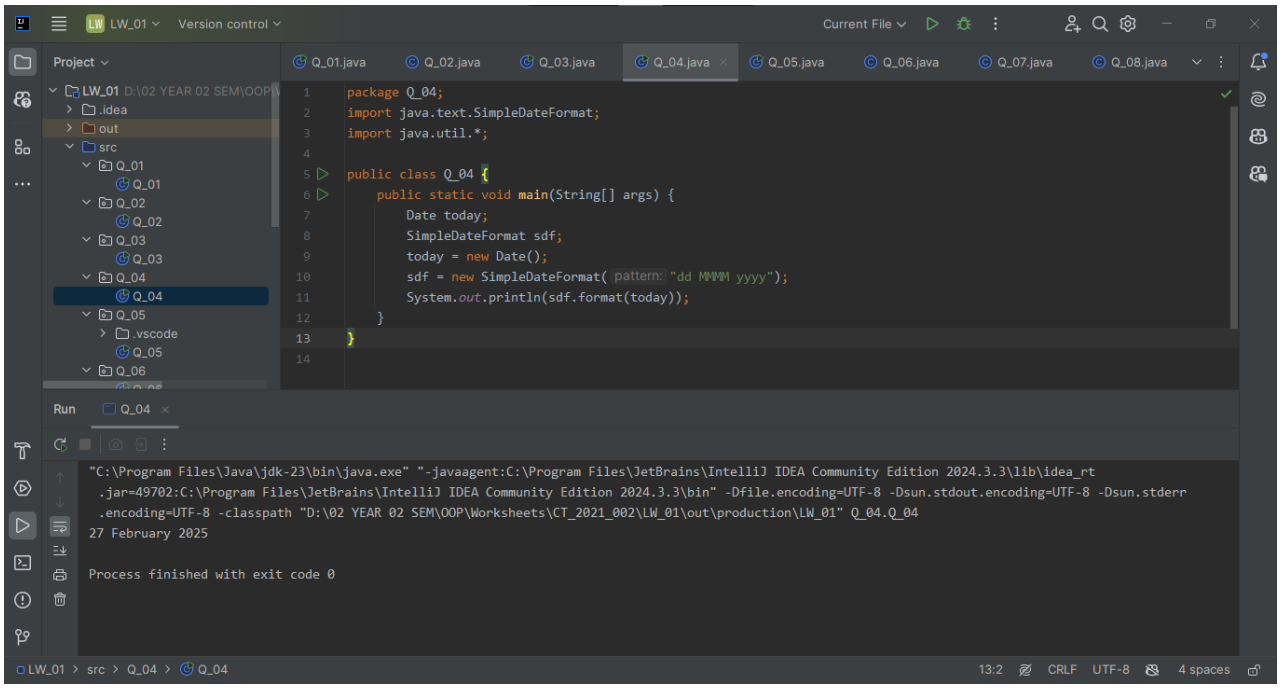


Q 04:

Code:

```
package Q_04;
import java.text.SimpleDateFormat;
import java.util.*;

public class Q_04 {
    public static void main(String[] args) {
        Date today;
        SimpleDateFormat sdf;
        today = new Date();
        sdf = new SimpleDateFormat("dd MMMM yyyy");
        System.out.println(sdf.format(today));
    }
}
```

Output:

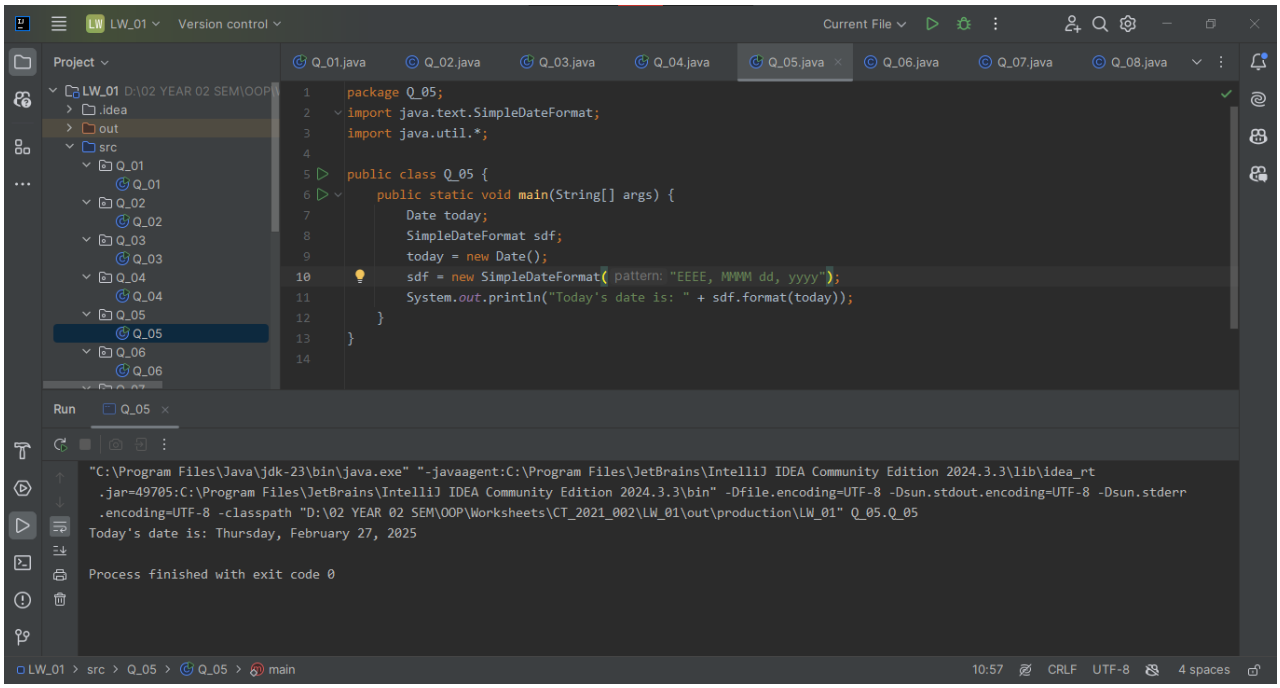


Q 05:

Code:

```
package Q_05;
import java.text.SimpleDateFormat;
import java.util.*;

public class Q_05 {
    public static void main(String[] args) {
        Date today;
        SimpleDateFormat sdf;
        today = new Date();
        sdf = new SimpleDateFormat("EEEE, MMMM dd, yyyy");
        System.out.println("Today's date is: " + sdf.format(today));
    }
}
```

Output:

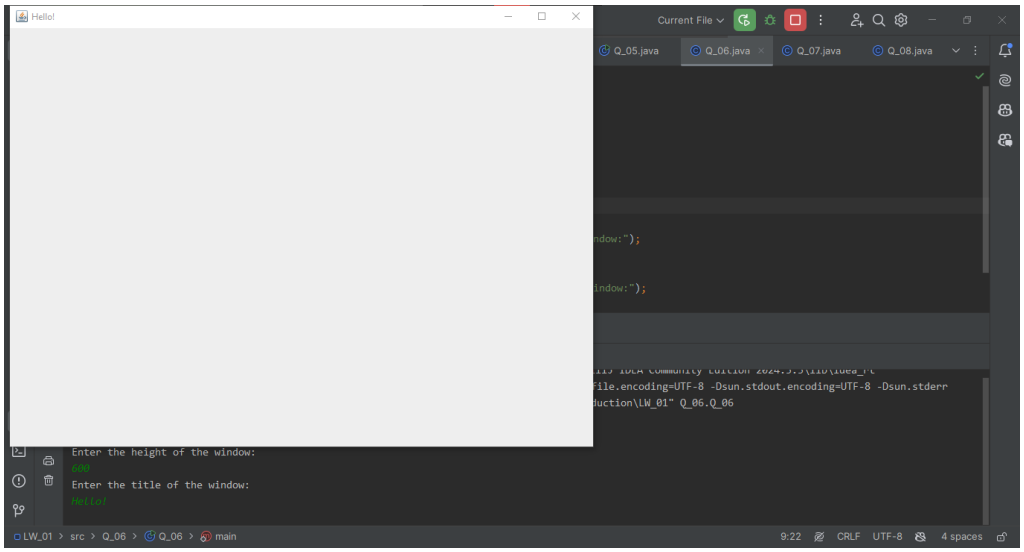


Q 06:

Code:

```
package Q_06;
import javax.swing.*;
import java.util.*;

public class Q_06 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int width, height;
        String title;

        System.out.println("Enter the width of the window:");
        width = sc.nextInt();

        System.out.println("Enter the height of the window:");
        height = sc.nextInt();

        System.out.println("Enter the title of the window:");
        sc.nextLine();
        title = sc.nextLine();

        JFrame customWindow;
        customWindow = new JFrame();
        customWindow.setSize(width,height);
        customWindow.setTitle(title);
        customWindow.setVisible(true);
        customWindow.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);

    }
}
```

Output:

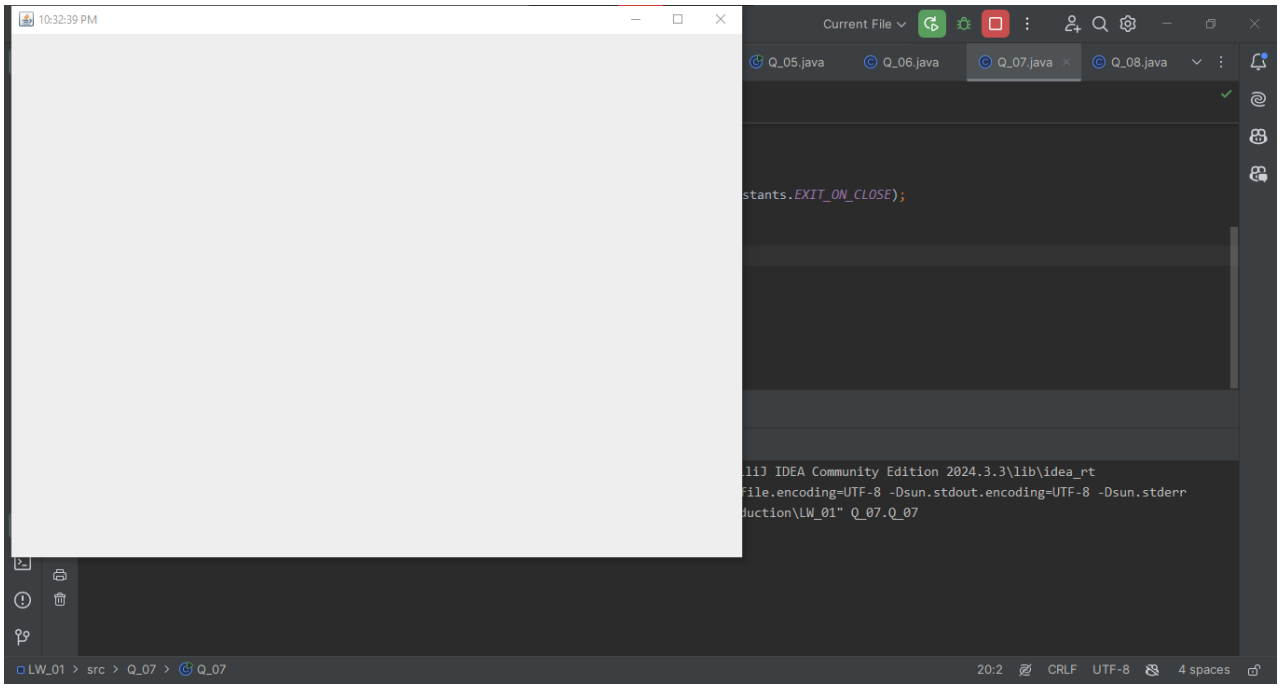


Q 07:

Code:

```
package Q_07;
import java.util.*;
import javax.swing.*;
import java.text.SimpleDateFormat;

public class Q_07 {
    public static void main(String[] args) {
        Date now = new Date();
        SimpleDateFormat sdf = new SimpleDateFormat("hh:mm:ss a");
        String time = sdf.format(now);

        JFrame timeWindow;
        timeWindow = new JFrame();
        timeWindow.setSize(800,600);
        timeWindow.setTitle(time);
        timeWindow.setVisible(true);
        timeWindow.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);

    }
}
```

Output:

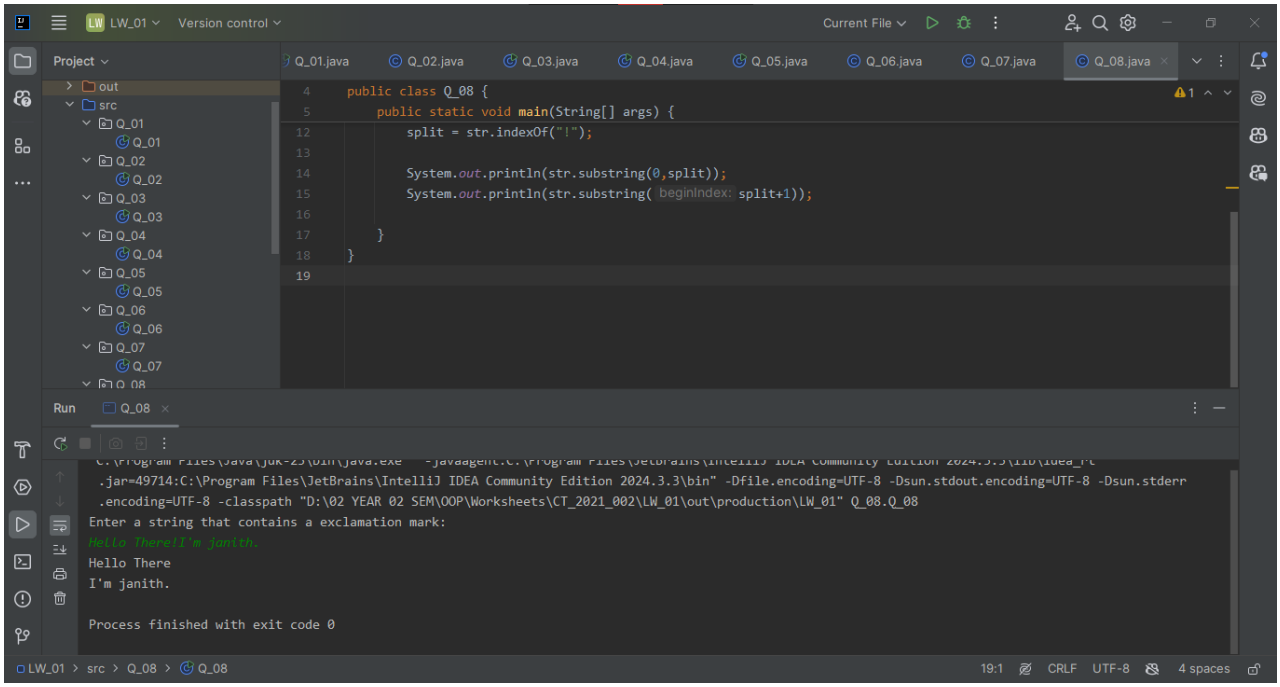


Q 08:

Code:

```
package Q_08;
import java.util.*;

public class Q_08 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        String str;
        Integer split;

        System.out.println("Enter a string that contains a exclamation mark:");
        str = scan.nextLine();
        split = str.indexOf("!");

        System.out.println(str.substring(0,split));
        System.out.println(str.substring(split+1));

    }
}
```

Output:

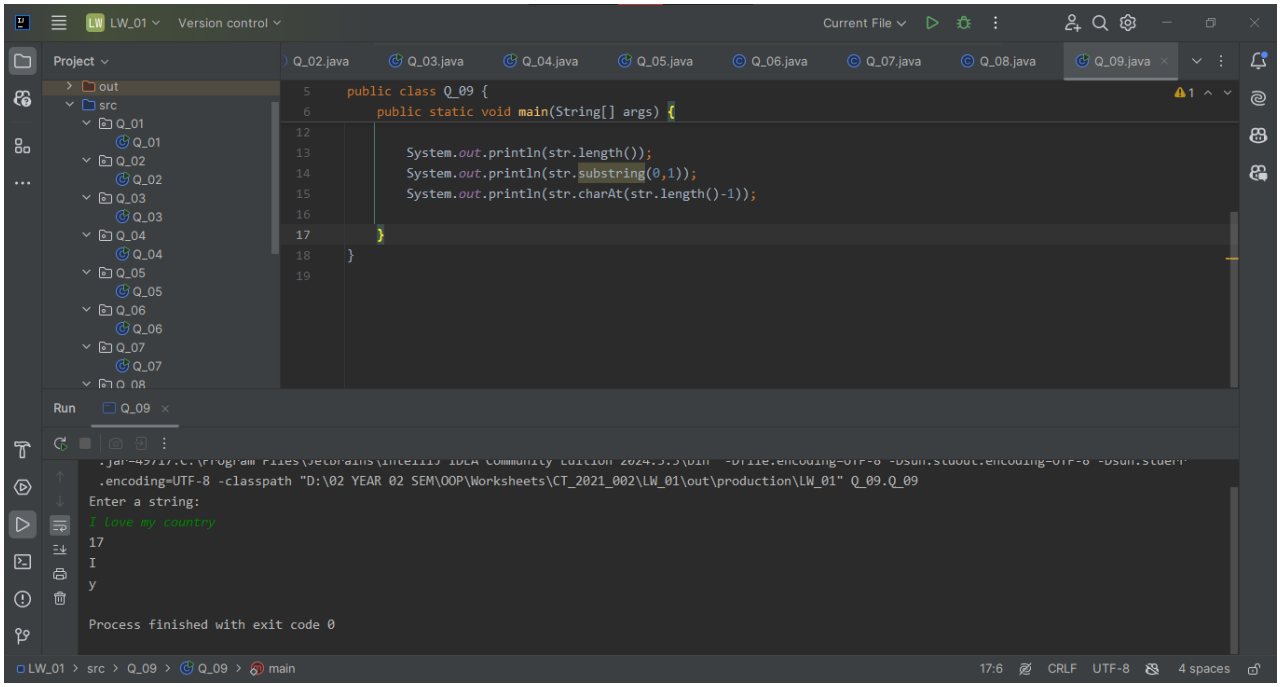


Q 09:

Code:

```
package Q_09;
import java.util.Scanner;

public class Q_09 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        String str;

        System.out.println("Enter a string:");
        str = scan.nextLine();

        System.out.println(str.length());
        System.out.println(str.substring(0,1));
        System.out.println(str.charAt(str.length()-1));

    }
}
```

Output:

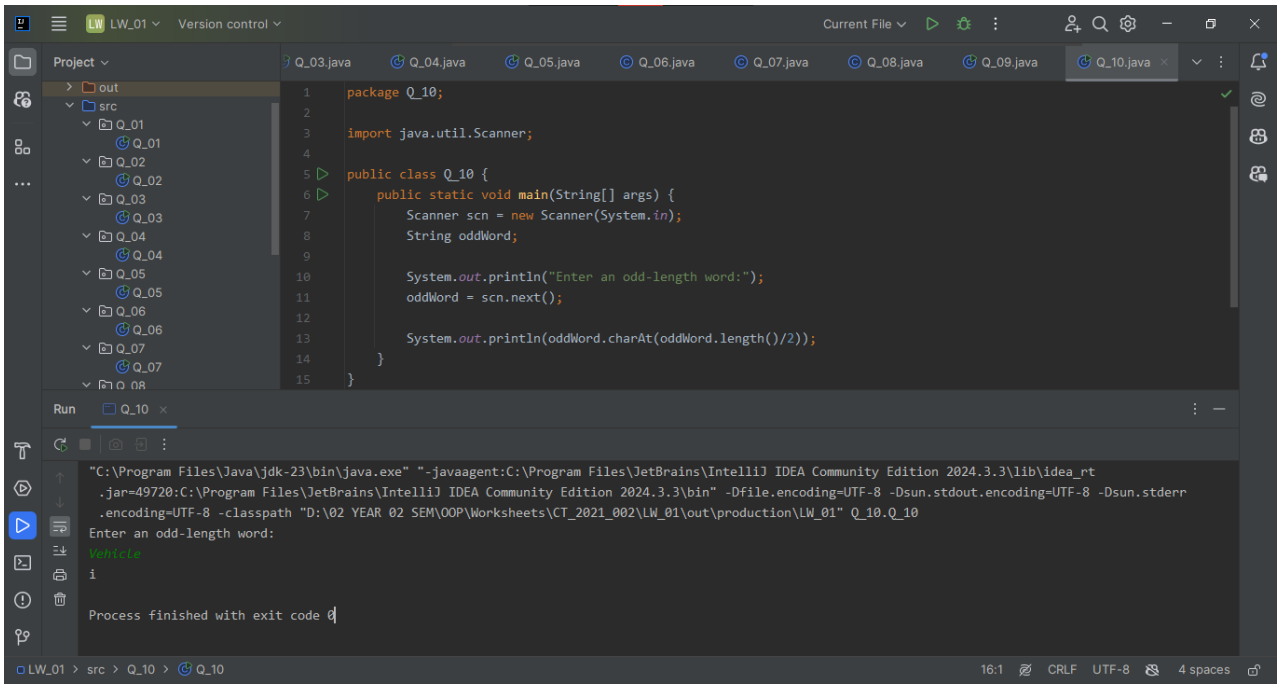


Q 10:

Code:

```
package Q_10;
import java.util.Scanner;

public class Q_10 {
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String oddWord;

        System.out.println("Enter an odd-length word:");
        oddWord = scn.next();

        System.out.println(oddWord.charAt(oddWord.length()/2));
    }
}
```

Output:

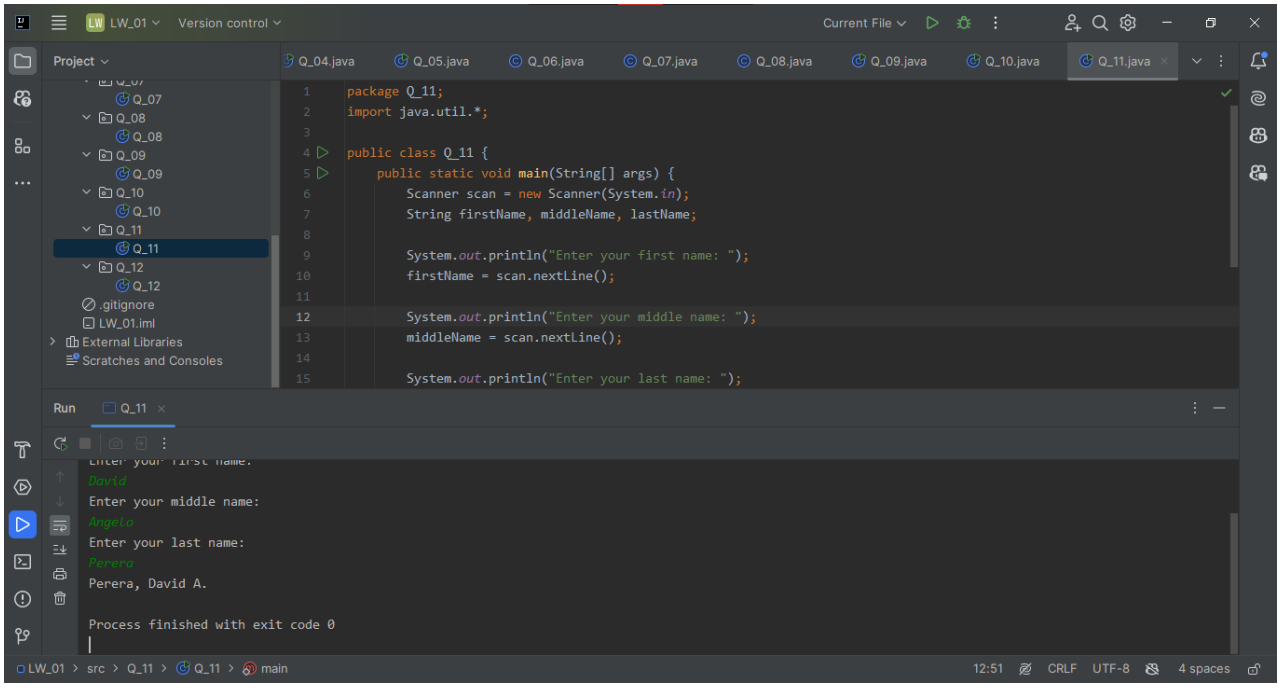


Q 11:

Code:

```
package Q_11;
import java.util.*;

public class Q_11 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        String firstName, middleName, lastName;

        System.out.println("Enter your first name: ");
        firstName = scan.nextLine();

        System.out.println("Enter your middle name: ");
        middleName = scan.nextLine();

        System.out.println("Enter your last name: ");
        lastName = scan.nextLine();

        System.out.println(lastName+", "+firstName+" "+middleName.charAt(0)+".");

    }
}
```

Output:



Q 12 :

Code:

```
package Q_12;
import javax.swing.*;

public class Q_12 {
    public static void main(String[] args) {
        JFrame windowLocation;
        windowLocation = new JFrame();
        windowLocation.setSize(300,200);
        windowLocation.setTitle("My First Frame");
        windowLocation.setLocation(100,50);
        windowLocation.setVisible(true);
        windowLocation.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
    }
}
```

Output: