

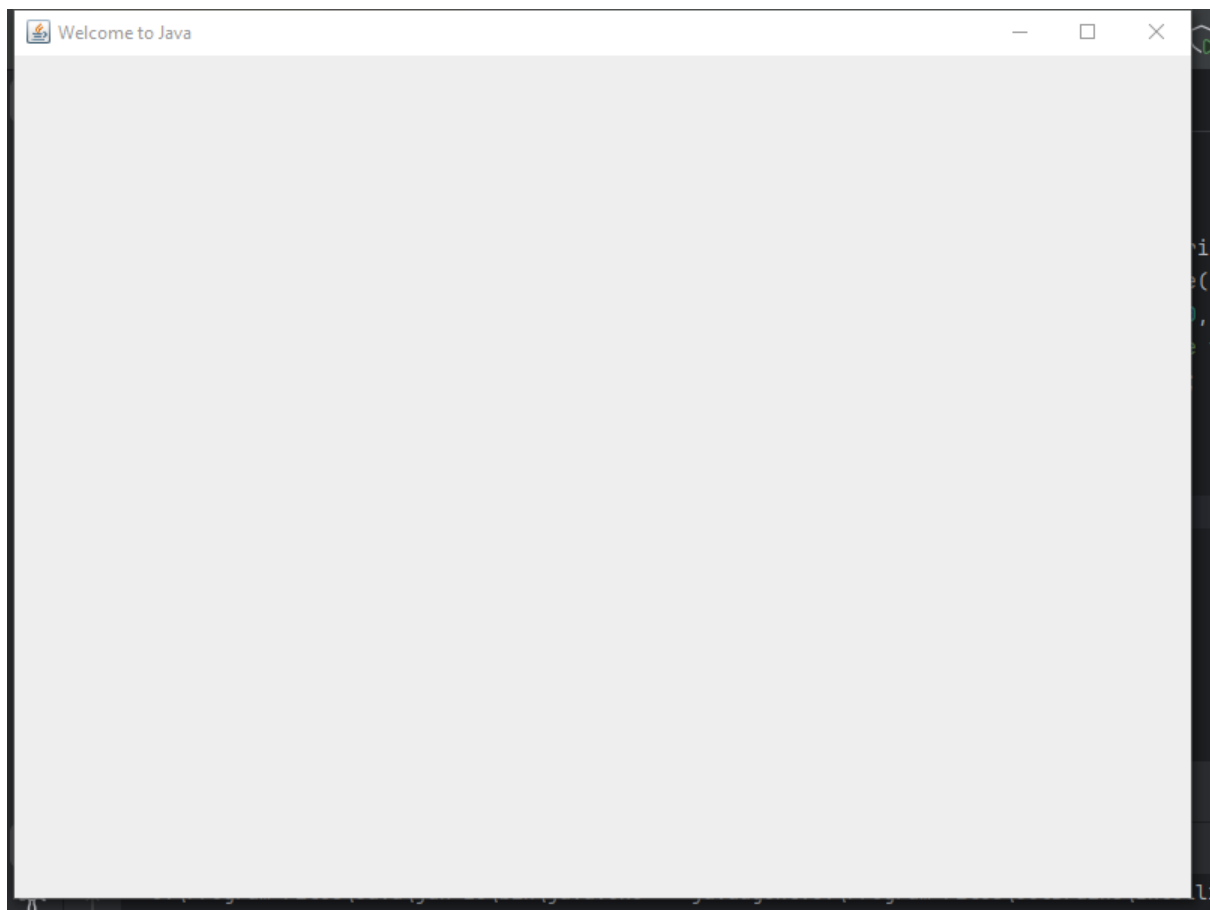
Q1.

Code:

```
package Q1;
import javax.swing.*;
public class Q1 {
    public static void main(String[] args) {
        JFrame frame=new JFrame();
        frame.setSize(800,600);
        frame.setTitle("Welcome to Java");
        frame.setVisible(true);

    }
}
```

Output:



Q2.

Code:

```
package Q2;
import javax.swing.*;
import java.util.Scanner;

public class Q2 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);

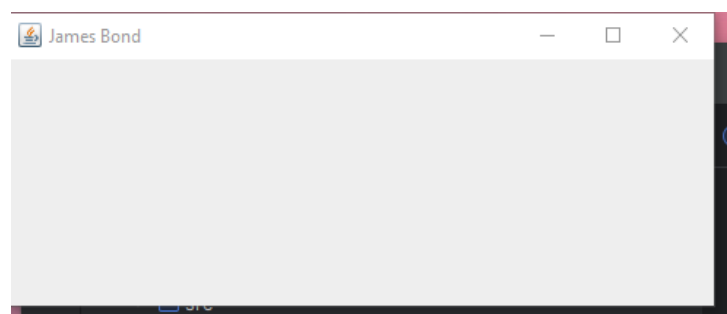
        System.out.println("Enter your first name:");
        String firstname =scanner.next();
        System.out.println("Enter your last name:");
        String lastname=scanner.next();

        System.out.println(firstname+" "+lastname);

        JFrame frame=new JFrame();
        frame.setSize(500,200);
        frame.setTitle(firstname+" "+lastname);
        frame.setVisible(true);
    }
}
```

Output:

```
"C:\Program Files\Java\jdk-23\
Enter your first name:
James
Enter your last name:
Bond
James Bond
|
```



Q3.

Code:

```
package Q3;

import java.util.Scanner;

public class Q3 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);

        System.out.println("Enter your first name:");
        String firstName=scanner.next();
        System.out.println("Enter your middle name:");
        String middleName=scanner.next();
        System.out.println("Enter your last name:");
        String lastName=scanner.next();

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

        //Another method to display the middle name with
        first character.
        // System.out.println(firstName+"
"+middleName.charAt(0)+"."+lastName);
    }
}
```

Output:

```
Enter your first name:
Jonathan
Enter your middle name:
John
Enter your last name:
Wick
Jonathan J.Wick
```

```
Process finished with exit code 0
```

Q4.

Code:

```
package Q4;

import java.text.SimpleDateFormat;
import java.util.Date;

public class Q4 {
    public static void main(String[] args) {
        Date today=new Date();
        //System.out.println(today);

        SimpleDateFormat sdf=new SimpleDateFormat("dd MMM
yyyy");

        System.out.println(sdf.format(today));
    }
}
```

Output:

```
"C:\Program Files\Java\jdk-23\bin\jav
01 Mar 2025

Process finished with exit code 0
.
```

Q5

Code:

```
package Q5;

import java.text.SimpleDateFormat;
import java.util.Date;

public class Q5 {
    public static void main(String[] args) {
        Date today=new Date();
        SimpleDateFormat sdf=new SimpleDateFormat("EEEE,MMMM
dd,yyyy");

        System.out.println(sdf.format(today));
    }
}
```

Output:

```
"C:\Program Files\Java\jdk-23\bin\ja
Saturday, March 01, 2025

Process finished with exit code 0
```

Q6

Code:

```
package Q6;

import javax.swing.*;
import java.util.Scanner;

public class Q6 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        JFrame frame=new JFrame();

        System.out.println("Enter the width:");
        int width=scanner.nextInt();

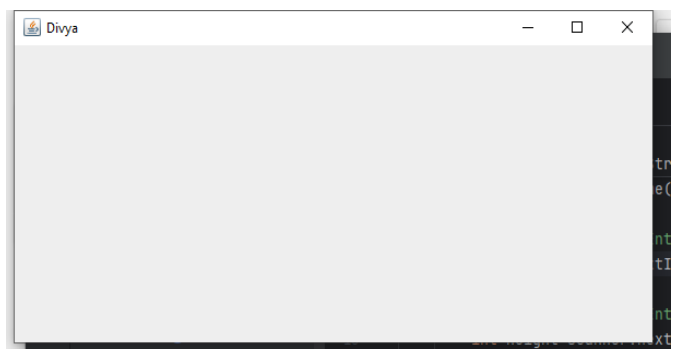
        System.out.println("Enter the height:");
        int height=scanner.nextInt();

        System.out.println("Enter the title of the window:");
        String title=scanner.next();

        //JFrame frame=new JFrame(title); We create a JFrame
        window with the given title
        frame.setSize(width,height);
        frame.setTitle(title);
        frame.setVisible(true);
    }
}
```

Output:

```
Enter the width:
600
Enter the height:
300
Enter the title of the window:
Divya
Process finished with exit code 130
```



Q7

Code:

```
package Q7;

import javax.swing.*;
import java.text.SimpleDateFormat;
import java.util.Date;

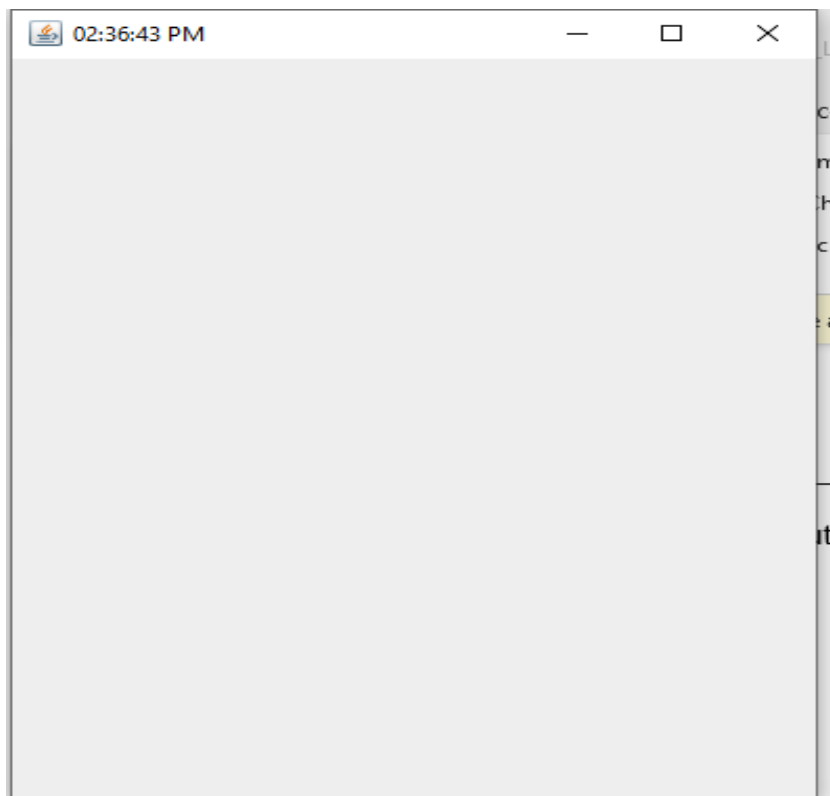
public class Q7 {
    public static void main(String[] args) {
        Date today=new Date();
        JFrame frame=new JFrame();

        SimpleDateFormat sdf=new SimpleDateFormat("hh:mm:ss
a");

        String title=sdf.format(today);

        frame.setSize(400,500);
        frame.setTitle(title);
        frame.setVisible(true);
    }
}
```

Output:



Q8

Code:

```
package Q8;

import java.util.Scanner;

public class Q8 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter the string that contain
single exclamation mark:");
        String input=scanner.nextLine();

        String[] parts=input.split("!",2);
        if(parts.length==2){
            System.out.println(parts[0].trim());
            // trim removes leading and trailing spaces
            System.out.println(parts[1].trim());
        }else{
            System.out.println("no '!' found in input");
        }
    }
}
```

Output:

```
Enter the string that contain single exclamation mark:
one potato two potatoes! three potatoes,
one potato two potatoes
three potatoes,

Process finished with exit code 0
```


Q9

Code:

```
package Q9;

import java.util.Scanner;

public class Q9 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);

        System.out.println("Enter a string:");
        String input=scanner.nextLine();

        System.out.println(input.length());
        System.out.println(input.substring(0,1));
        System.out.println(input.substring(input.length()-
1));
        //Extracts the last character from input.length()-1
        to the end,we don't need to specify an end index.
    }
}
```

Output:

```
Enter a string:
```

```
I like java
```

```
11
```

```
I
```

```
a
```

```
Process finished with exit code 0
```

Q10

Code:

```
package Q10;

import java.util.Scanner;

public class Q10 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter a odd length word:");
        String word=scanner.next();

        if(word.length()%2==1){
            System.out.println("Middle
character:"+word.charAt(word.length()/2));
        }else{
            System.out.println("Error! Word length is not
odd.");
        }
    }
}
```

Output:

```
C:\Program Files\Java\jdk-25\bin\java.exe
Enter a odd length word:
Magnificant
Middle character:f

Process finished with exit code 0
```

Q11

Code:

```
package Q11;

import java.util.Scanner;

public class Q11 {
    public static void main(String[] args) {
        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter your first name:");
        String firstName=scanner.next();
        System.out.println("Enter your middle name:");
        String middleName=scanner.next();
        System.out.println("Enter your last name:");
        String lastName=scanner.next();

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

Output:

```
C:\Program Files\Java\jdk-20\bin\jav
Enter your first name:
Anthony
Enter your middle name:
Edward
Enter your last name:
Stark
Stark, Anthony E.

Process finished with exit code 0
```

Q12

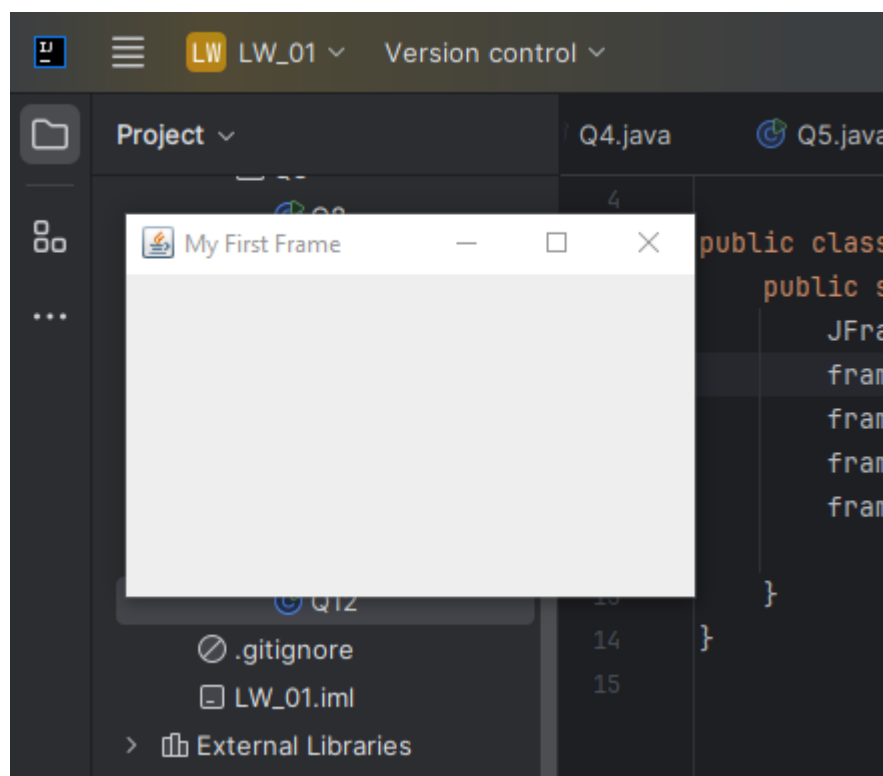
Code:

```
package Q12;

import javax.swing.*;

public class Q12 {
    public static void main(String[] args) {
        JFrame frame=new JFrame();
        frame.setSize(300,200);
        frame.setTitle("My First Frame");
        frame.setLocation(50,100);
        frame.setVisible(true);
    }
}
```

Output:



Q13

Code:

```
package Q13;

import javax.swing.*;

class Q13{
    public static void main(String[] args) {
        JFrame myWindow;
        myWindow = new JFrame();
        myWindow.setSize(500, 250);
        myWindow.setTitle("UOK");
        myWindow.setVisible(true);
        try {Thread.sleep(500);} catch(Exception e) { }
        myWindow.setVisible(false);
        try {Thread.sleep(500);} catch(Exception e) { }
        myWindow.setVisible(true);
    }
}
```

Output:

