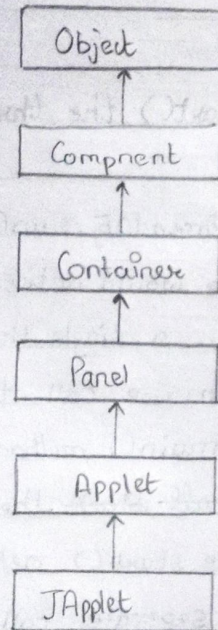


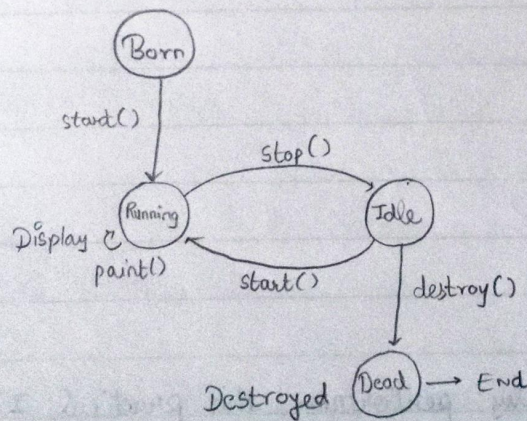
## Practical No. 15

Aim: Create, debug and run Java programs based on Applets.

Diagram:



15.1 Hierarchy of Applet.



15.2 Applet Life Cycle



## Practical No. 15

Aim: Create, debug and run Java programs based on Applets.

Theory:

What is a java applet?

Applet is a specific special type of program that is embedded in the webpage to generate the dynamic content. It runs inside the browser and works at client side.

What are the advantages of Applet?

- It works at client side, so less response time.
- Can be used by browsers running under various platforms, including Linux, windows, MacOS X.

What is the drawback of applets?

A major drawback of applets is that a plugin is required at client browser to ~~exent~~ execute applet.

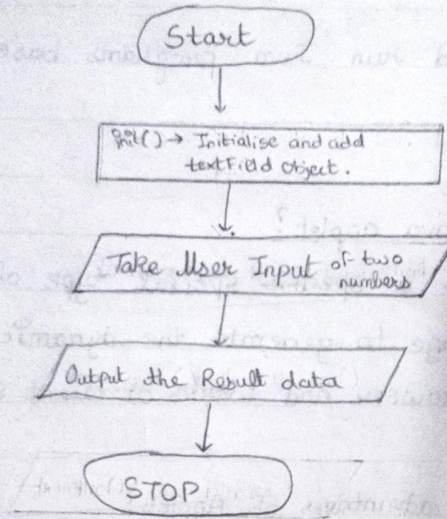
What are the stages of Applet life cycle?

The four states in an applet life cycle are:

- 1) Born or initialization state
- 2) Running State
- 3) Idle state
- 4) Dead or destroyed state



Flowchart:



Conclusion:

Hence, by performing this practical, I created, debugged and executed java programs based on Applets.

Code:

Input.java

```
import java.awt.*;
import java.applet.*;

/*<applet code="Input.class" height="500" width="500">*/

public class Input extends Applet{
    TextField text1, text2;

    public void init(){
        text1 = new TextField(8);
        text2 = new TextField(8);
        add(text1);
        add(text2);
        text1.setText("0");
        text2.setText("0");
    }

    public void paint(Graphics g){
        double x = 0;
        double y = 0;
        double sum = 0, mul=0, div = 0, remainder = 0, sub = 0;
        String s1="",s2="",s3="";

        g.drawString("Input a number in each box",10,50);
        try{
            s1 = text1.getText();
            x = Double.parseDouble(s1);
            s2 = text2.getText();
            y = Double.parseDouble(s2);
        }catch(Exception e){
            System.out.println("Exception Occured : " + e);
        }finally{
            sum = x + y;
            sub = x - y;
            mul = x * y;
            div = x / y;
            remainder = x % y;

            s3 = String.valueOf(sum);
            String temp = "The Sum of " + s1 + " + " + s2 + " is " + s3;
            g.drawString(temp,10,75);
            temp = "The Subtraction of " + s1 + " - " + s2 + " is " +
String.valueOf(sub);
```

```

        g.drawString(temp,10,100);
        temp = "The Multiplication of " + s1 + " * " + s2 + " is " +
String.valueOf(mul);
        g.drawString(temp,10,125);
        temp = "The Division of " + s1 + " / " + s2 + " is " +
String.valueOf(div);
        g.drawString(temp,10,150);
        temp = "The Remainder of " + s1 + " % " + s2 + " is " +
String.valueOf(remainder);
        g.drawString(temp,10,175);
    }

}

public boolean action(Event event, Object object){
    repaint();
    return true;
}
}

```

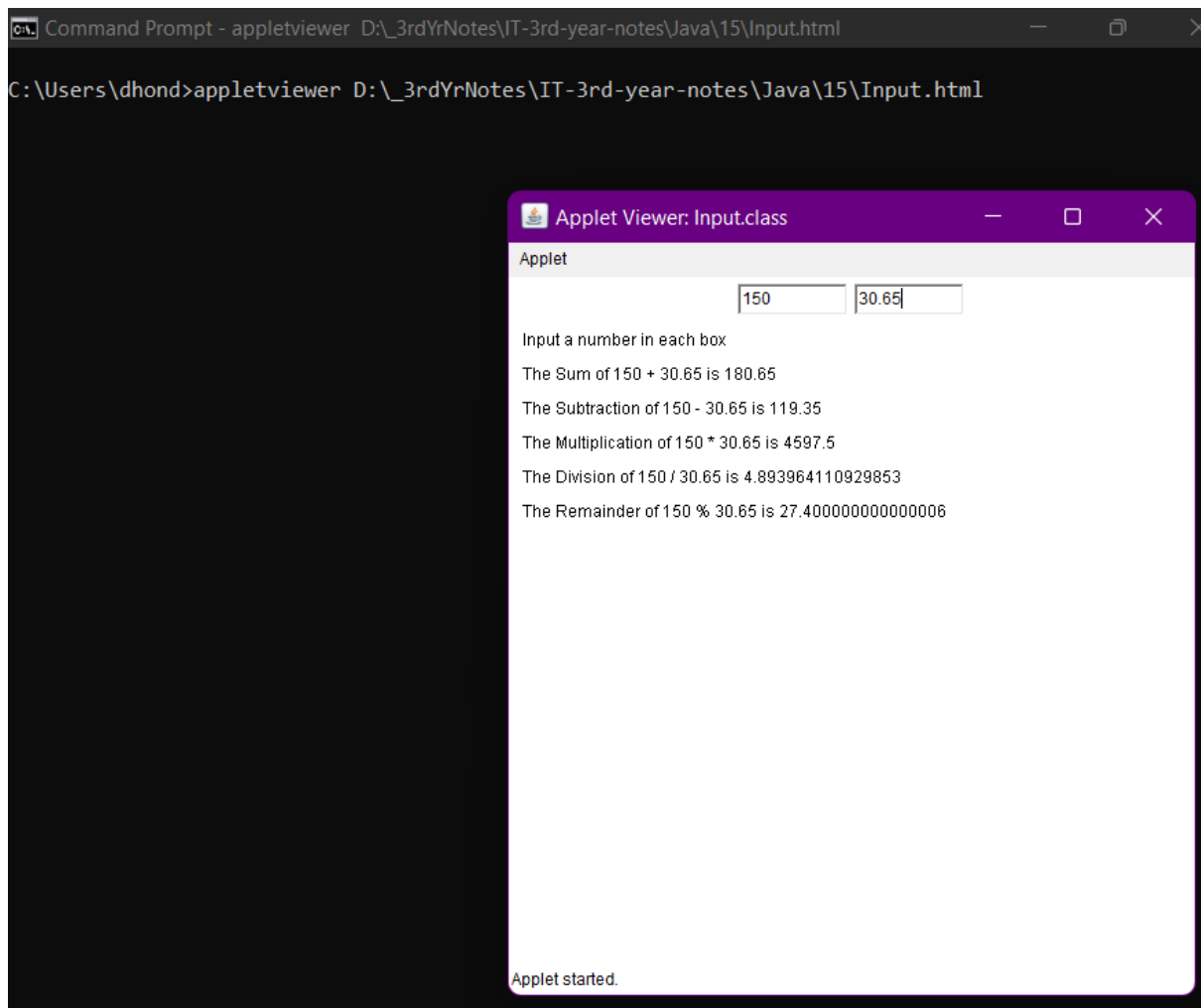
Input.html

```

<html>
<applet code="Input.class" height="500" width="500"> </applet>
</html>

```

Output:



Applet To Add Two Numbers



Conclusion:

Hence, by performing this practical, I created, debugged and executed Java programs based on Applets.