```
Synchronized void put(int n)
{
  while (valueset)
  {
    try
    {
      System.out.println("\n producer
                                waiting \n");
      wait();
    }
    catch (InterruptedException caught");
  }
  this.n = n;
  valueset = true;
  System.out.println("Put: "+n);
  system.out.println("Intimate consumer");
  notify();
  }
}

class producer implements runnable
{
  Q q;
  producer(Q q)
  { this.q = q
    new Thread (this, "Producer").start();
  }
  public void run()
  {
  int i = 0;
  while (i<15)
  { q.PUT(i++);
```

20/2/24

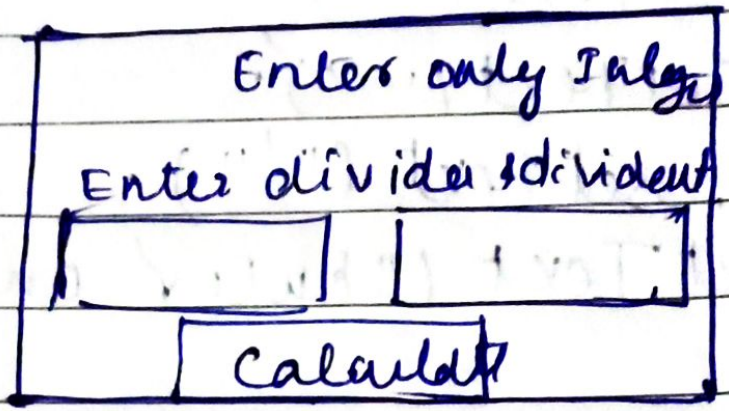
LAB-9

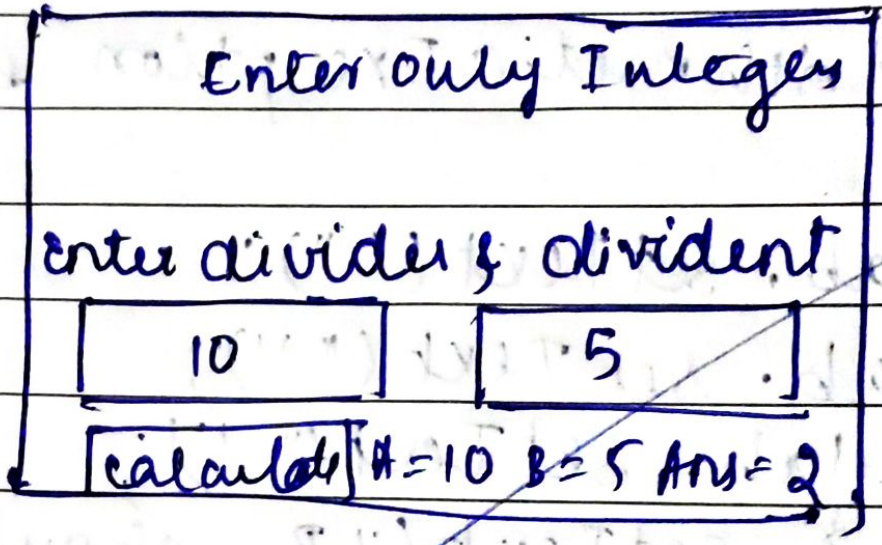
```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

class SwingDemo
{
    SwingDemo()
    {
        JFrame jfrm = new JFrame("Divider App");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperation(JFrame.
                                      EXIT_ON_
                                      CLOSE);
        JLabel jlab = new JLabel("Enter the
                                  divider and
                                  divident:");
        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);
        JButton button = new JButton("Calculate");
        JLabel err = new JLabel();
        JLabel alab = new JLabel();
        JLabel blab = new JLabel();
        JLabel anslab = new JLabel();
        //add in order
        jfrm.add(err);
        jfrm.add(jlab);
        jfrm.add(ajtf);
        jfrm.add(bjtf);
        jfrm.add(button);
        jfrm.add(alab);
        jfrm.add(blab);
        jfrm.add(anslab);
```

```
ActionListener l = new ActionListener()
{ public void actionperformed
                    (ActionEvent evt)
  {
     System.out.println("Action event
                    from a text field");
  }
};
ajtf.addActionListener(l);
bjtf.addActionListener(l);

button.addActionListener(new ActionListener
{
 public void actionPerformed(ActionEvent
                    evt)
 {
    try
    {
      int a = Integer.parseInt(ajtf.
                    getText());
      int b = Integer.ParseInt(bjtf.getText
      int ans = a/b;

      alab.setText("\nA = " + a);
      blab.setText("\nB = " + b);
      anslab.setText("\n\nAns = " + ans);
    }
```

```
catch (NumberFormatException e)
{
    alab.setText("");
    blab.setText("");
    anslab.setText("");
    err.setText("Enter only Integers!");
}
catch (ArithmeticException e)
{
    alab.setText("");
    blab.setText("");
    anslab.setText("");
    err.setText("B should be NON Zero!");
}
}
});
jfrm.setVisible(true);
}
public static void main(String args[])
{
SwingUtilities.invokeLater(new Runnable()
{
    public void run()
    {
        new SwingDemo();
    }
});
}
```

output :-


Enter only Integ
Enter divide & divident
Calculate


Enter only Integers
enter divider & divident
10
5
calculate
A=10 B=5 Ans=2