

Program:-

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

class MyFrame extends JFrame implements ActionListener
{
    JProgressBar pb;
    JButton b1=new JButton("LOGIN");
    MyFrame()
    {
        setLayout(null);
        pb=new JProgressBar(1,100);
        pb.setValue(0);
        pb.setStringPainted(true);
        b1.setBounds(20,20,80,25);
        pb.setBounds(110,20,200,25);
        pb.setVisible(false);
        add(b1);
        add(pb);
        b1.addActionListener(this);
        setResizable(false);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
    }
    public void actionPerformed(ActionEvent ae)
    {
        int i=0;
        if(ae.getSource()==b1)
        {
            pb.setVisible(true);
        }
    }
}
```

```

try
{
while(i<=100)
{
Thread.sleep(50);
pb.paintImmediately(0,0,200,25);
pb.setValue(i);
i++;
}
}
catch(Exception e1)
{
System.out.println("exception is="+e1);
}
}
}

public class Progress1
{
public static void main (String args[])
{
MyFrame m=new MyFrame();
m.setSize(300,100);
m.setVisible(true);
}
}

```

Output:-

