Name:- Exp1A

Program:-

Experiment 1a:

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

@SuppressWarnings("serial")

public class KeyEventDemo extends Applet implements KeyListener
{
    String msg = "";

    public void init()
    {
        addKeyListener(this);
    }

    public void keyReleased(KeyEvent k)
    {
        showStatus("Key Released");
        repaint();
    }

    public void keyTyped(KeyEvent k)
    {
        showStatus("Key Typed");
        repaint();
    }

    public void keyPressed(KeyEvent k)
    {
        showStatus("Key Pressed");
        repaint();
    }

    public void paint(Graphics g)
    {
        g.drawString(msg, 10, 10);
    }
}
```
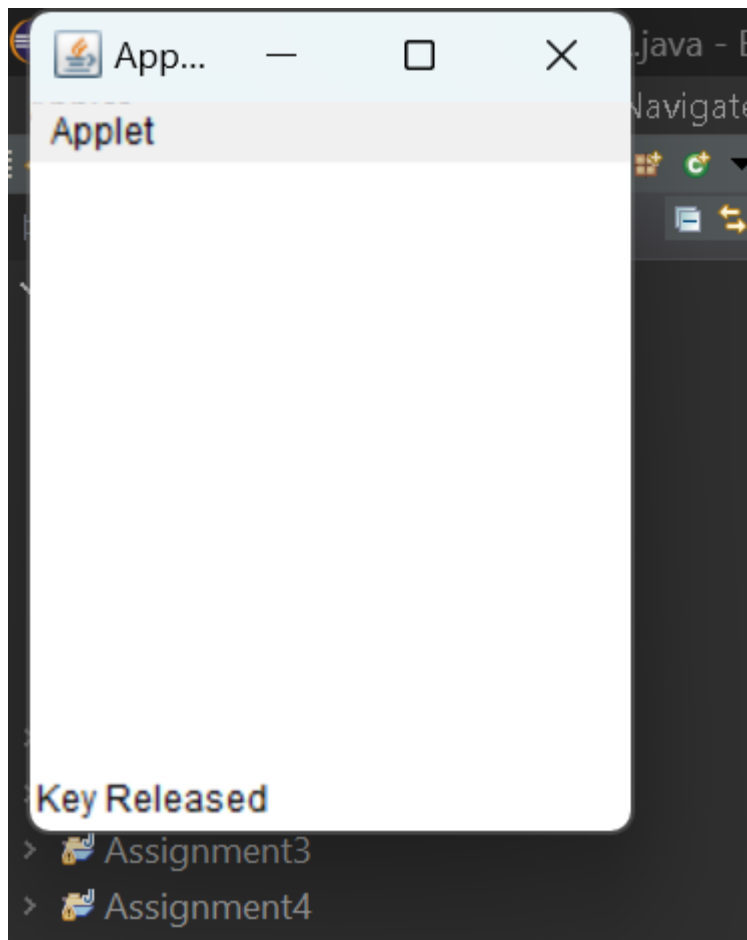
OutPut :-

Name:-EXP1B

Program :-

Experiment 1b:

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

public class KeyEventDemo extends Applet implements KeyListener
{
 String msg = "";
int X = 10, Y = 20; // output coordinates public void init()
public void init()
{
        addKeyListener(this);
        requestFocus(); // request input focus
}
public void keyPressed(KeyEvent k)
{
        showStatus("Key Down");
  int key = k.getKeyCode();
 switch(key)
 {
        case KeyEvent.VK_F1:
            msg = msg + "F1 ";
     break;
  case KeyEvent.VK_F2:
         msg = msg + "F2 ";
     break;
  case KeyEvent.VK_F3:
     msg = msg + "F3 ";
     break;
  case KeyEvent.VK_F4:
     msg = msg + "F4 ";
     break;
  case KeyEvent.VK_RIGHT:
     msg = msg + "RIGHT ";
     break;
  case KeyEvent.VK_LEFT:
     msg = msg + "LEFT ";
     break;
  case KeyEvent.VK_UP:
        msg = msg + "UP ";
        break;
  case KeyEvent.VK_DOWN:
        msg = msg + "DOWN ";
        break;
 }
 repaint();
}
public void keyReleased(KeyEvent k){
        showStatus("Key Up");

}

public void keyTyped(KeyEvent k){
        msg += k.getKeyChar();
        repaint();
}

public void paint(Graphics g)
{
 g.drawString(msg, X, Y);}}
```

Output :-