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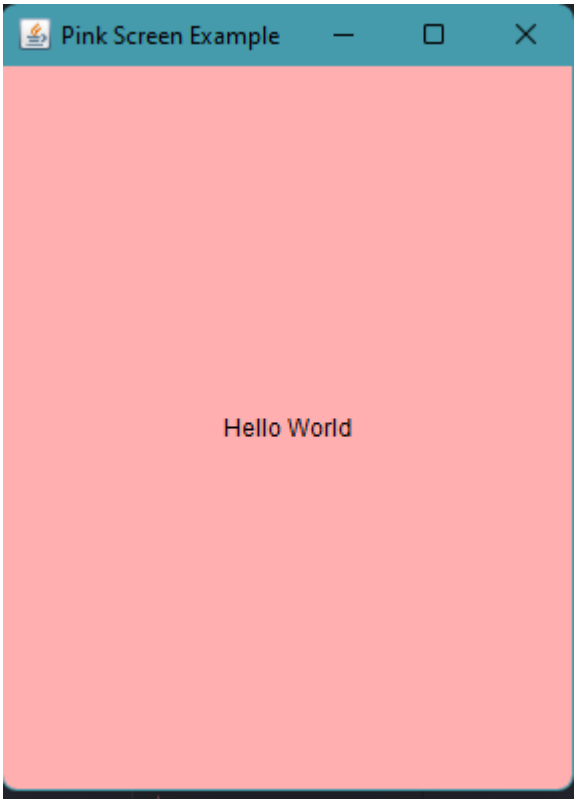
Course: B.Sc (Hons) CS

Roll No: AD-1224

LAB EXERCISE 10

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

public class Pink extends Frame {
    Label l;

    Pink() {
        super("Pink Screen Example");
        l = new Label("Hello World");
        l.setBounds(25, 50, 250, 30);
        l.setAlignment(Label.CENTER);
        this.setBackground(Color.PINK);
        this.add(l);

        this.setSize(300, 400);
        this.setVisible(true);
    }

    public static void main(String[] args) {
        new Pink();

    }
}
```

OUTPUT



LAB EXERCISE 11

```
import java.awt.*;
 import java.awt.event.*;
 public class Main extends Frame implements ActionListener {
    Button btnRed, btnBlue;
    Main() {
        super("AWT Buttons");
        btnRed = new Button("Red");
        btnRed.setBounds(25, 50, 250, 30);
        btnRed.addActionListener(this);
        this.add(btnRed);
        btnBlue = new Button("Blue");
        btnBlue.setBounds(25, 100, 250, 30);
        btnBlue.addActionListener(this);
        this.add(btnBlue);
        this.setSize(300, 160);
        this.setLayout(null);
        this.setVisible(true);
        this.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) {
                 dispose();
            }
        });
```

```
    }
    public static void main(String[] args) {
                new Main();
    }
    @Override public void actionPerformed(ActionEvent e) {
        if (e.getSource() == btnRed) { this.setBackground(Color.RED);
}
        else if (e.getSource() == btnBlue) {
this.setBackground(Color.BLUE); }
    }
}
```

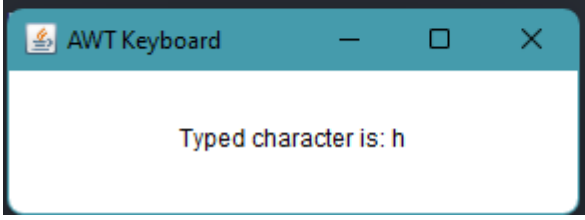
OUTPUT

LAB EXERCISE 12

```
import java.awt.*;
import java.awt.event.*;
class KbdAdapter extends KeyAdapter {
    Label l;
    KbdAdapter(Label l) {
         this.l = l;
    }
    @Override public void keyTyped(KeyEvent e) {
        l.setText("Typed character is: " + e.getKeyChar());
    }
    @Override public void keyPressed(KeyEvent e) {
        System.out.println("Pressed character is: " + e.getKeyChar());
    } @Override public void keyReleased(KeyEvent e) {
        System.out.println("Released character is: " +
e.getKeyChar());
    }
}
public class Main extends Frame {
```

```
        Label l;
        Main() {
        super("AWT Keyboard"); l = new Label("");
        l.setBounds(25, 50, 250, 30);
        l.setAlignment(Label.CENTER);
        this.addKeyListener(new KbdAdapter(l));
        this.add(l); this.setSize(300, 110);
        this.setLayout(null);
        this.setVisible(true);
        this.addWindowListener(new WindowAdapter() {
        public void windowClosing(WindowEvent e) {
            dispose(); }
        }
        );

    }
    public static void main(String[] args) {
        new Main();
    }
}
```

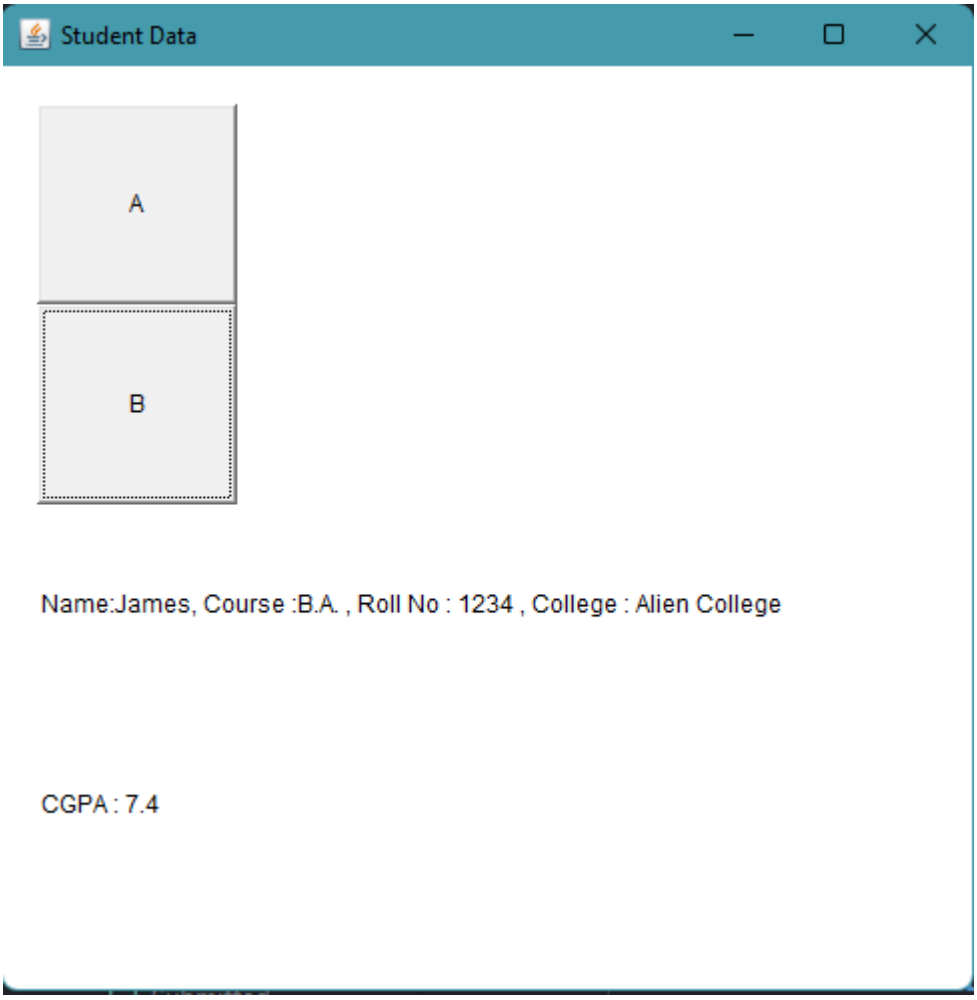
```
PS D:\ANDC\Sem-2\Java\Lab9\Program3> cd "d:\ANDC\Sem-2\Jav
a\Lab9\Program3\" ; if ($?) { javac Main.java } ; if ($?)
{ java Main }
Pressed character is: v
Pressed character is: t
Released character is: t
Released character is: v
Pressed character is: h
Released character is: h
```



LAB EXERCISE 13

```
import java.awt.*;
import java.awt.event.*;
 public class Main extends Frame implements ActionListener {
    Button btnA, btnB;
    Label la,lb;
```

```
    Main() {
        super("Student Data");
        la=new Label("Name:James, Course :B.A. , Roll No : 1234 ,
College : Alien College ");
        lb= new Label("CGPA : 7.4");
        la.setBounds(25,250 ,1000,100);
        lb.setBounds(25,350,100,100);

        btnA = new Button("A");
        btnA.setBounds(25, 50, 100, 100);
        btnA.addActionListener(this);
        this.add(btnA);

        btnB = new Button("B");
        btnB.setBounds(25, 150, 100, 100);
        btnB.addActionListener(this);
        this.add(btnB);

        this.setSize(500, 500);
        this.setLayout(null);

        this.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) {
                 dispose();
            }
        });
        this.setVisible(true);
    }
    public static void main(String[] args) {
                new Main();
    }
    @Override public void actionPerformed(ActionEvent e) {
        if (e.getSource() == btnA) { this.add(la); }
        else if (e.getSource() == btnB) {
            this.add(lb);
            //this.setVisible(true);
        }
    }
}
```


Student Data
A
B
Name:James, Course :B.A. , Roll No : 1234 , College : Alien College
CGPA : 7.4