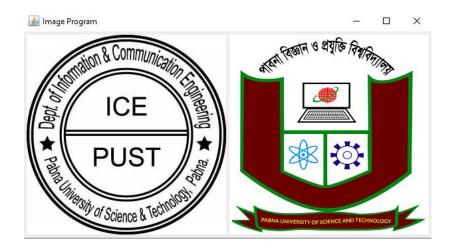
Java GUI Programs

<u>Lab-01: Write a JAVA Program to Display Image using JFrame</u>

Source Code in JAVA:

```
import java.awt.FlowLayout;
import javax.swing.ImageIcon;
import javax.swing.JFrame;
import javax.swing.JLabel;
public class Image extends JFrame {
      private ImageIcon image1;
      private JLabel label1;
      private ImageIcon image2;
      private JLabel label2;
      Image(){
             setLayout(new FlowLayout());
             image1 = new ImageIcon(getClass().getResource("ice.jpg"));
             label1 = new JLabel(image1);
             add(label1);
             image2 = new ImageIcon(getClass().getResource("pust.png"));
             label2 = new JLabel(image2);
             add(label2);
      }
      public static void main(String args[]) {
             Image gui = new Image();
             gui.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
             gui.setVisible(true);
             gui.pack();
             gui.setTitle("Image Program");
      }
}
```

Output:

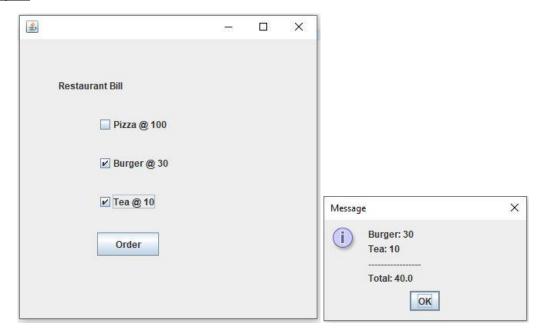


Lab-02: Write a JAVA Program for generating Restaurant Bill

Source Code in JAVA:

```
import javax.swing.*;
import java.awt.event.*;
public class BillGeneration extends JFrame implements ActionListener{
    JLabel 1;
    JCheckBox cb1,cb2,cb3;
    JButton b;
    BillGeneration(){
        l=new JLabel("Food Ordering System");
        1.setBounds(50,50,300,20);
        cb1=new JCheckBox("Pizza @ 100");
        cb1.setBounds(100,100,150,20);
        cb2=new JCheckBox("Burger @ 30");
        cb2.setBounds(100,150,150,20);
        cb3=new JCheckBox("Tea @ 10");
        cb3.setBounds(100,200,150,20);
        b=new JButton("Order");
        b.setBounds(100,250,80,30);
        b.addActionListener(this);
        add(1);add(cb1);add(cb2);add(cb3);add(b);
        setSize(400,400);
        setLayout(null);
        setVisible(true);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
    public void actionPerformed(ActionEvent e){
        float amount=0;
        String msg="";
        if(cb1.isSelected()){
            amount+=100;
            msg="Pizza: 100\n";
        if(cb2.isSelected()){
            amount+=30;
            msg+="Burger: 30\n";
        if(cb3.isSelected()){
            amount+=10;
            msg+="Tea: 10\n";
        }
        msg+="----\n";
        JOptionPane.showMessageDiaLog(this, msg+"Total: "+amount);
    public static void main(String[] args) {
        new BillGeneration();
    }
}
```

Output:



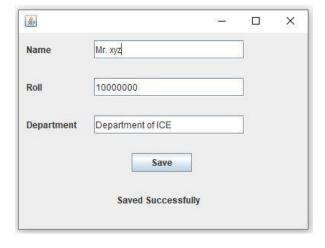
Lab-03: Write a JAVA Program to Create a Student form in GUI

Source Code in JAVA:

```
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JPanel;
import javax.swing.JTextField;
public class form implements ActionListener {
      private static JLabel success;
      private static JFrame frame;
      private static JLabel label1, label2, label3;
      private static JPanel panel;
      private static JButton button;
      private static JTextField userText1, userText2, userText3;
      public static void main(String[] args) {
          frame = new JFrame();
              panel = new JPanel();
             frame.setSize(400, 300);
             frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
             frame.add(panel);
             panel.setLayout(null);
             //Setting all Three <u>Lebels</u>
             label1= new JLabel("Name");
             label1.setBounds(10,10,80,25);
             panel.add(label1);
```

```
label2 = new JLabel("Roll");
      label2.setBounds(10,60,80,25);
      panel.add(label2);
      label3 = new JLabel("Department");
      label3.setBounds(10,110,80,25);
      panel.add(label3);
      //Creating all Textfields
      userText1 = new JTextField("Enter Your Name");
      userText1.setBounds(100,10,200,25);
      panel.add(userText1);
      JTextField userText2 = new JTextField("Enter Your Name");
      userText2.setBounds(100,60,200,25);
      panel.add(userText2);
      JTextField userText3 = new JTextField("Enter Your Name");
      userText3.setBounds(100,110,200,25);
      panel.add(userText3);
      button = new JButton("Save");
      button.setBounds(150, 160, 80, 25);
      button.addActionListener(new form());
      panel.add(button);
      success = new JLabel("");
      success.setBounds(130,210,300,25);
      panel.add(success);
      frame.setVisible(true);
}
@Override
public void actionPerformed(ActionEvent e) {
      // TODO Auto-generated method stub
      success.setText("Saved Successfully");
}
```

Output:



Lab-04: Write a JAVA Program to develop a simple calculator in GUI

Source Code in JAVA:

```
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
public class calculator extends JFrame implements ActionListener
   JButton b10, b11, b12, b13, b14, b15;
   JButton b[]=new JButton[10];
    int i,r,n1,n2;
    JTextField res;
    char op;
   public calculator()
  {
     super("Calulator");
      setLayout(new BorderLayout());
      JPanel p=new JPanel();
      p.setLayout(new GridLayout(4,4));
      for(int i=0;i<=9;i++)</pre>
      {
        b[i]=new JButton(i+"");
        p.add(b[i]);
        b[i].addActionListener(this);
      b10=new JButton("+");
      p.add(b10);
      b10.addActionListener(this);
      b11=new JButton("-");
      p.add(b11);
      b11.addActionListener(this);
      b12=new JButton("*");
      p.add(b12);
      b12.addActionListener(this);
      b13=new JButton("/");
      p.add(b13);
      b13.addActionListener(this);
      b14=new JButton("=");
      p.add(b14);
      b14.addActionListener(this);
      b15=new JButton("C");
      p.add(b15);
      b15.addActionListener(this);
      res=new JTextField(10);
      add(p,BorderLayout.CENTER);
      add(res,BorderLayout.NORTH);
      setVisible(true);
      setSize(200,200);
public void actionPerformed(ActionEvent ae)
```

```
JButton pb=(JButton)ae.getSource();
      if(pb==b15)
       r=n1=n2=0;
       res.setText("");
      }
      else
             if(pb==b14)
              n2=Integer.parseInt(res.getText());
              eval();
              res.setText(""+r);
             else
             {
               boolean opf=false;
               if(pb==b10)
                    { op='+';
                      opf=true;
                    }
               if(pb==b11)
                    { op='-';opf=true;}
               if(pb==b12)
                    { op='*';opf=true;}
               if(pb==b13)
                    { op='/';opf=true;}
               if(opf==false)
               {
                for(i=0;i<10;i++)</pre>
                    if(pb==b[i])
                    {
                    String t=res.getText();
                    res.setText(t);
                }
               }
               else
               {
                    n1=Integer.parseInt(res.getText());
                    res.setText("");
               }
             }
int eval()
{
      switch(op)
      {
      case '+':
                   r=n1+n2; break;
      case '-':
                   r=n1-n2;
                               break;
      case '*':
                   r=n1*n2; break;
      case '/':
                   r=n1/n2; break;
      return 0;
```

```
public static void main(String arg[])
{
    new calculator();
    }
}
```

Output:

Calulator		\$ -	
0	1	2	3
4	5	6	7
8	9	+	2
*	ı	=	С