Week:9

Aim: Write a Java Program to demonstrate image button. If a user click on it then its image will be displayed separately.

/* **Name:M.VIJAY KUMAR** **Roll. No:** 17091A05G8

Program No:9.a **Date:** 12/08/2019 **Sec:** C */

Source Code:

```
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
class ImageDemo5g8 extends JFrame implements ActionListener
{
    JButton b1,b2,b3;
    JLabel jl,l;
    ImageDemo5e1()
    {
        ImageIcon i1=new ImageIcon("ind.png");
        b1=new JButton("india",i1);
        ImageIcon i2=new ImageIcon("brunie.png");
        b2=new JButton("brunie",i2);
        ImageIcon i3=new ImageIcon("aus.png");
        b3=new JButton("aus",i3);
        Container c=getContentPane();
        c.setLayout(new FlowLayout());
        c.add(b1);
        c.add(b2);
        c.add(b3);
        l=new JLabel("Click on button todisplay image");
```

```
        c.add(l);
        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);
}
public void actionPerformed(ActionEvent ae)
{
        String s=ae.getActionCommand();
        if(s=="india")
        {
                l.setText("");
                ImageIcon i=new ImageIcon("ind.png");
                l.setIcon(i);
        }
        if(s=="brunie")
        {
                l.setText("");
                ImageIcon i=new ImageIcon("brunie.png");
                l.setIcon(i);
        }
        if(s=="aus")
        {
                l.setText("");
                ImageIcon i=new ImageIcon("aus.png");
                l.setIcon(i);
```

```
        }
    }
    public static void main(String[] args)
    {
        ImageDemo5g8 id=new ImageDemo5g8();
        id.setSize(600,300);
        id.setTitle("ImageDemo5G8");
        id.setVisible(true);
    }
}
```

Output:-

Week:9:-

Aim: Write a Java Program to implement JComboBox to display date of birth.

/* **Name: M.VIJAY KUMAR** **Roll. No:** 17091A05G8

Program No:9.b **Date:** 12/08/2019 **Sec:** C */

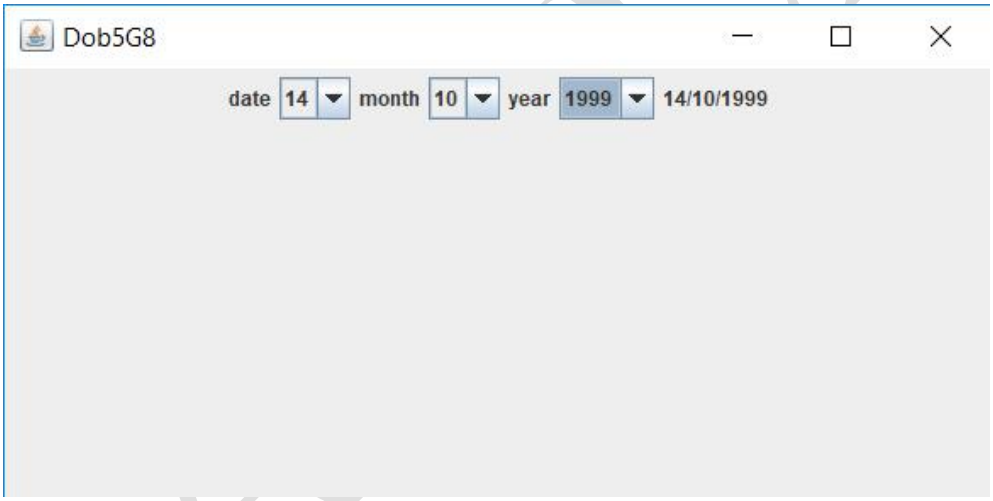
Source Code:

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
class Dobg8 extends JFrame implements ItemListener
{
                JComboBox date,month,year;
                JLabel j1,d,m,y;
                Dobg8()
                {
                   d=new JLabel("date");
                   m=new JLabel("month");
                   y=new JLabel("year");
                   date=new JComboBox();
                   month=new JComboBox();
                   year=new JComboBox();
                   setLayout(null);
                   setLayout(new FlowLayout());
                   j1=new JLabel();
                   for(int i=0;i<=31;i++)
                   setLayout(new FlowLayout());
                   j1=new JLabel();
                   for(int i=1;i<=31;i++)
```

```
        {
            date.addItem(""+i);
        }
        for(int i=1;i<=12;i++)
        {
            month.addItem(""+i);
        }
        for(int i=1990;i<2020;i++)
        {
            year.addItem(""+i);
        }
        add(d);
        add(date);
        add(m);
        add(month);
        add(y);
        add(year);
        add(j1);
        month.addItemListener(this);
        date.addItemListener(this);
        year.addItemListener(this);
    }
    public void itemStateChanged(ItemEvent ie)
    {
        String s1=(String)date.getSelectedItem();
        String s2=(String)month.getSelectedItem();
        String s3=(String)year.getSelectedItem();
```

```
        j1.setBounds(200,300,60,30);
        j1.setText(s1+"/"+s2+"/"+s3);
    }
    public static void main(String[] args)
    {
        Dobg8 d=new Dobg8();
        d.setSize(600,300);
        d.setTitle("Dob5g8");
        d.setVisible(true);
    }
}
```

Output:-



Week:10:-

Aim: write a java program to display list of items selected in two list using jlist in one list contains courses and in another list places

/* **Name: M.VIJAY KUMAR** **Roll. No:** 17091A05G8

Program No:10.a **Date:** 12/08/2019 **Sec:** C */

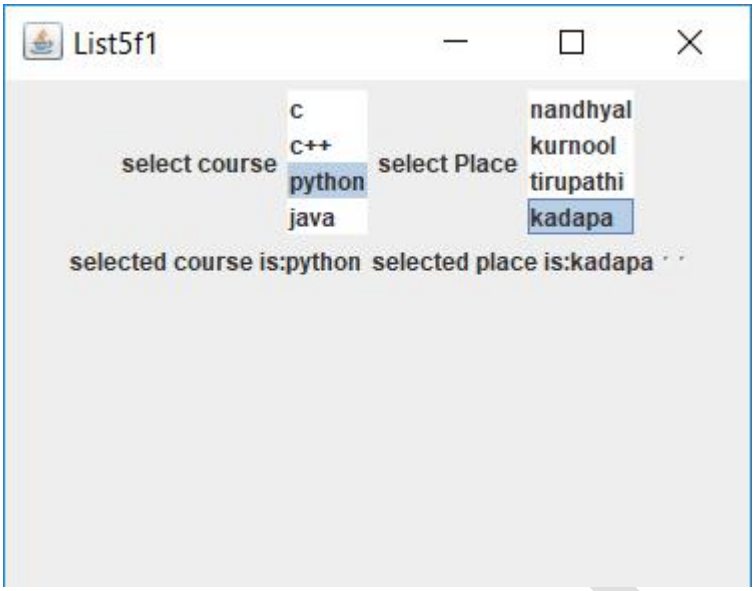
Source Code:

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.event.*;
class JListDemoG8 extends JFrame implements ListSelectionListener
{
                    JList l1,l2;
                    JLabel j1,j2,j3,j4;
                    JScrollPane p,p1;
                    JListDemoG8()
                    {
                     Object a[]={"c","c++","python","java"};
                     Object b[]={"nandyal","kurnool","tirupathi","kadapa"};
                     l1=new JList(a);
                     l2=new JList(b);
                     j1=new JLabel();
                     j2=new JLabel();
                     j3=new JLabel("select course");
                     j4=new JLabel("select Place");
                     p=new JScrollPane(l1);
                     p1=new JScrollPane(l2);
                    setLayout(new FlowLayout());
```

```
  add(j3);
  add(l1);
  add(j4);
  add(l2);
  add(j1);
  add(j2);
  add(p);
  add(p1);
  l1.addListSelectionListener(this);
  l2.addListSelectionListener(this);
}
public void valueChanged(ListSelectionEvent li)
{
    Object s=l1.getSelectedValue();
    Object s1=l2.getSelectedValue();
    String s2=s.toString();
    String s3=s1.toString();
    j1.setText("selected course is:"+s2);
    j2.setText("selected place is:"+s3);
}
public static void main(String ar[])
{
   JListDemoG8 d=new JListDemoG8();
   d.setSize(300,300);
   d.setTitle("List5G8");
   d.setVisible(true);
   d.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
        }
}
```

Output:-



Week:10:-

Aim: write a java program to perform division operation if a user enters two numbers in two text fields then the result will be displayed in another textfield if user enter denominator as zero or any character then show alert dialog for both exceptions using JOptionPane

/* **Name: M.VIJAY KUMAR** **Roll. No:** 17091A05G8

Program No:10.b **Date:**12/08/2019 **Sec:** C */

Source Code:

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
class OptionPaneDemoG8 extends JFrame implements ActionListener
{
  JTextField j1,j2,j3;
  JButton b1;
  JLabel l1,l2,l3;
  OptionPaneDemoG8()
  {
                    j1=new JTextField(20);
                    j2=new JTextField(20);
                    j3=new JTextField(20);
                    l1=new JLabel("value 1");
                    l2=new JLabel("value 2");
                    l3=new JLabel("result");
                    b1=new JButton("divide");
                    setLayout(new FlowLayout());
                    add(l1);
                    add(j1);
                    add(l2);
                    add(j2);
                    add(l3);
                    add(j3);
                    add(b1);
                    b1.addActionListener(this);
  }
 public void actionPerformed(ActionEvent e)
  {
```

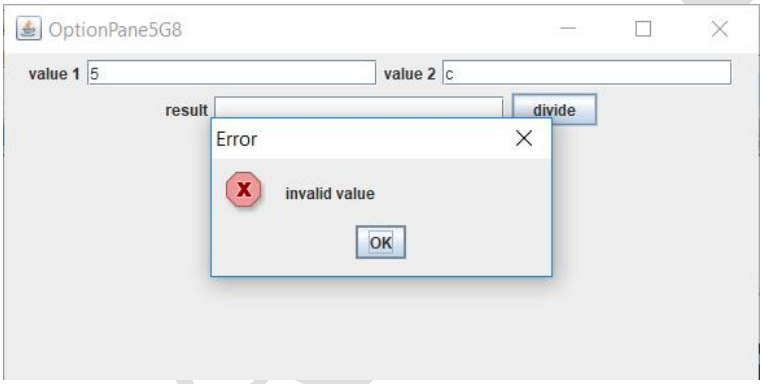
```
                String s1,s2,s3;
                s1=j1.getText();
                s2=j2.getText();
                char s4=s2.charAt(0);
                int v1,v2,v3;
                boolean b=Character.isDigit(s4);
                if(b)
                {
                    v1=Integer.parseInt(s1);
                   v2=Integer.parseInt(s2);
                      if(v2==0)
                      {
                            JOptionPane.showMessageDialog(this,"devided by 0 is not
                             possibe","Exception",JOptionPane.WARNING_MESSAGE);
                      }
                   else
                   {
                      v3=v1/v2;
                      s3=Integer.toString(v3);
                      j3.setText(s3);
                   }
                }
    if(b==false)
    {
          JOptionPane.showMessageDialog(this,"invalid
                value","Error",JOptionPane.ERROR_MESSAGE);

    }
  }
  public static void main(String ar[])
  {
                OptionPaneDemoG8 op1=new OptionPaneDemoG8();
                op1.setTitle("OptionPane5G8");
                op1.setSize(600,300);
                op1.setVisible(true);
  }
}
```

Output:-


OptionPane5G8
value 1 9
value 2 3
result 3
divide


OptionPane5G8
value 1 5
value 2 0
result
divide
Exception
divided by 0 is not possibe
OK


OptionPane5G8
value 1 5
value 2 c
result
divide
Error
invalid value
OK

Week:11:-

Aim: write a java program to create jmenu with different menu options

/* **Name: M.VIJAY KUMAR** **Roll. No:** 17091A05G8

Program No:11 **Date:** 12/08/2019 **Sec:** C */

Source Code:

```
import java.awt.*;
import java.awt.event.*;
import static java.awt.event.InputEvent.CTRL_DOWN_MASK;
import javax.swing.*;
public class Menu5e1 extends JFrame implements ActionListener
{
   JMenuBar f;
                    JTextArea t1,t2;
                    JMenu file,edit,font,fstyle,fsize;
                    JMenuItem i1,i2,i3,i4,i5,i6,i7,i8,i9,i10,i11,i12;
                    JCheckBoxMenuItem p;
                    JLabel l1;
                    FlowLayout f1;
                    Menu5e1()
                    {
                       setLayout(null);
                       f1=new FlowLayout(FlowLayout.LEFT);
                       setLayout(f1);
                      f=new JMenuBar();
                       p=new JCheckBoxMenuItem("print");
                       t1=new JTextArea(10,50);
                       t2=new JTextArea(10,50);
```

```
file=new JMenu("file");
edit=new JMenu("edit");
font=new JMenu("font");
fstyle=new JMenu("font name");
fsize=new JMenu("font style");
i1=new JMenuItem("new");
i2=new JMenuItem("save");
i3=new JMenuItem("save as");
i9=new JMenuItem("open");
i10=new JMenuItem("close");
i11=new JMenuItem("timesnewroman");
i4=new JMenuItem("cut");
i5=new JMenuItem("copy");
i8=new JMenuItem("paste");
i6=new JMenuItem("arial");
i7=new JMenuItem("bold");
i12=new JMenuItem("italic");
l1=new JLabel("sree");
file.add(i1);
file.add(i9);
file.add(i2);
file.add(i3);
file.add(p);
edit.add(i4);
edit.add(i5);
edit.add(i8);
f.add(file);
```

```
f.add(edit);
file.add(font);
file.add(i10);
font.add(fstyle);
font.add(fsize);
fstyle.add(i6);
fstyle.add(i11);
fsize.add(i7);
fsize.add(i12);
f.add(l1);
add(f);
i1.addActionListener(this);
i2.addActionListener(this);
i3.addActionListener(this);
i4.addActionListener(this);
i5.addActionListener(this);
i6.addActionListener(this);
i7.addActionListener(this);
i8.addActionListener(this);
i9.addActionListener(this);
i10.addActionListener(this);
i11.addActionListener(this);
i12.addActionListener(this);
i1.setAccelerator(KeyStroke.getKeyStroke('N',CTRL_DOWN_MASK));
i2.setAccelerator(KeyStroke.getKeyStroke('S',CTRL_DOWN_MASK));
i9.setAccelerator(KeyStroke.getKeyStroke('O',CTRL_DOWN_MASK));
i4.setAccelerator(KeyStroke.getKeyStroke('X',CTRL_DOWN_MASK));
```

```
        i5.setAccelerator(KeyStroke.getKeyStroke('C',CTRL_DOWN_MASK));
        i8.setAccelerator(KeyStroke.getKeyStroke('V',CTRL_DOWN_MASK));
        p.setAccelerator(KeyStroke.getKeyStroke('P',CTRL_DOWN_MASK));
    }
    public void actionPerformed(ActionEvent e)
    {
       String s=e.getActionCommand();
        l1.setText("selected option is :"+s);
    }
    public static void main(String arg[])
    {
         Menu5e1 m=new Menu5e1();
          m.setSize(500,500);
          m.setVisible(true);
          m.setTitle("menu5f1");
    }
}
```

Output:-