Lab-12 Assignments

Layouts, Menus & Dialog

Demo 1: BorderLayout

Run as-> Java Application

Demo 2: CardLayout
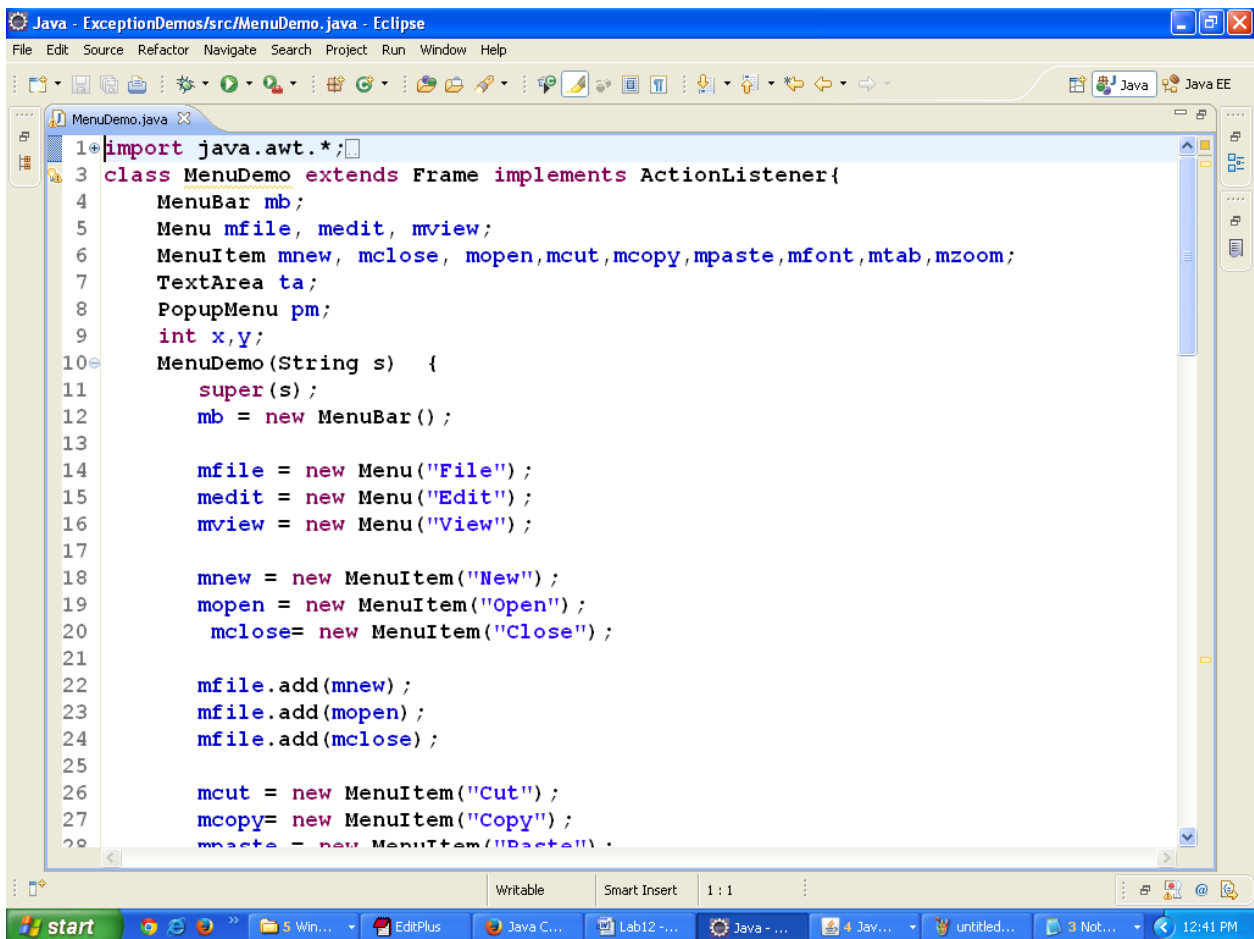
```java
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class CardLayoutExample extends JFrame implements ActionListener{
CardLayout card;
JButton b1,b2,b3;
Container c;
    CardLayoutExample(){
         c=getContentPane();
        card=new CardLayout(40,30);
//create CardLayout object with 40 hor space and 30 ver space
        c.setLayout(card);
        b1=new JButton("Apple");
        b2=new JButton("Boy");
        b3=new JButton("Cat");
        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);
        c.add("a",b1);c.add("b",b2);c.add("c",b3); }
    public void actionPerformed(ActionEvent e) {
    card.next(c);}
    public static void main(String[] args) {
        CardLayoutExample cl=new CardLayoutExample();
        cl.setSize(400,400);
        cl.setVisible(true);
        cl.setDefaultCloseOperation(EXIT_ON_CLOSE);  } }
```

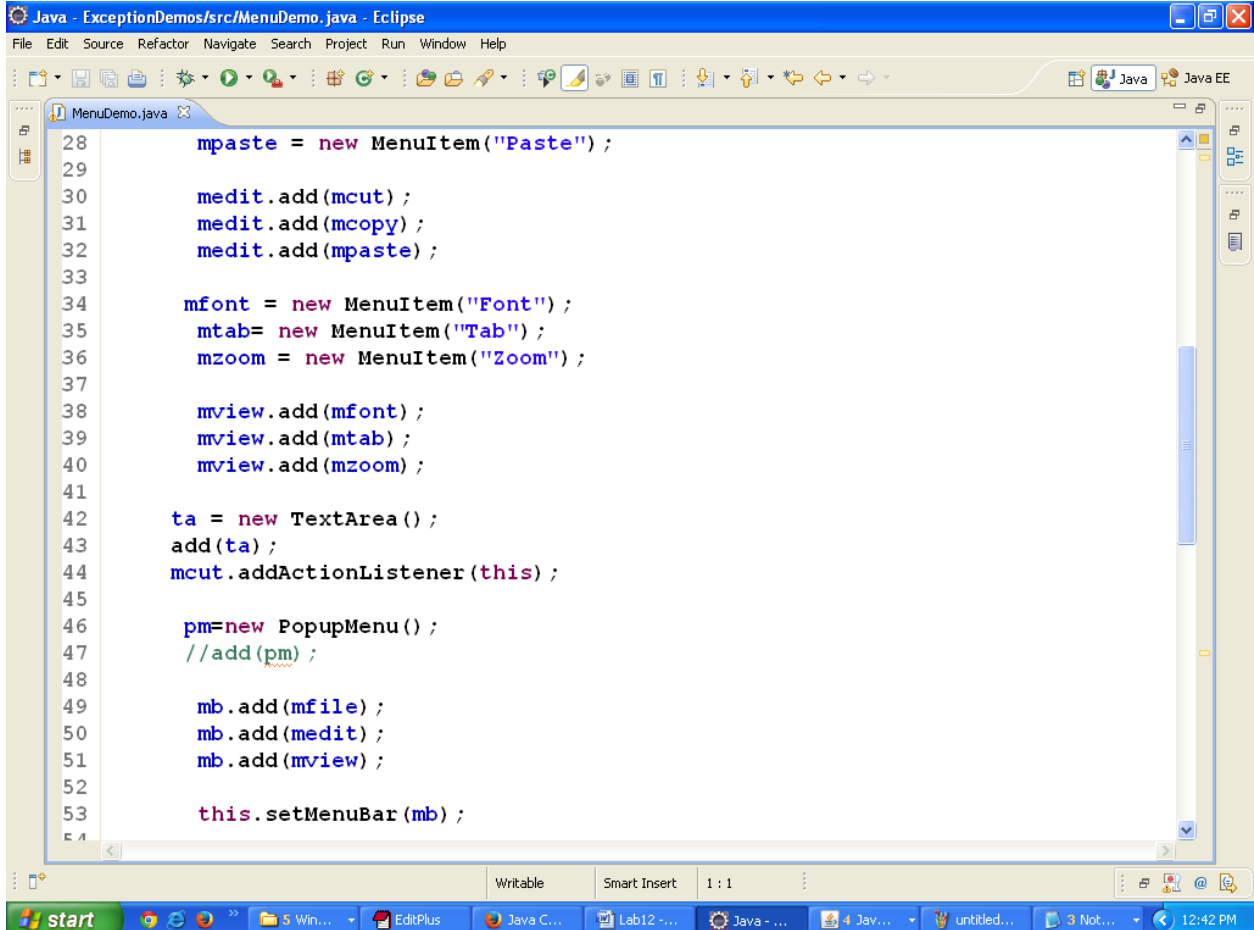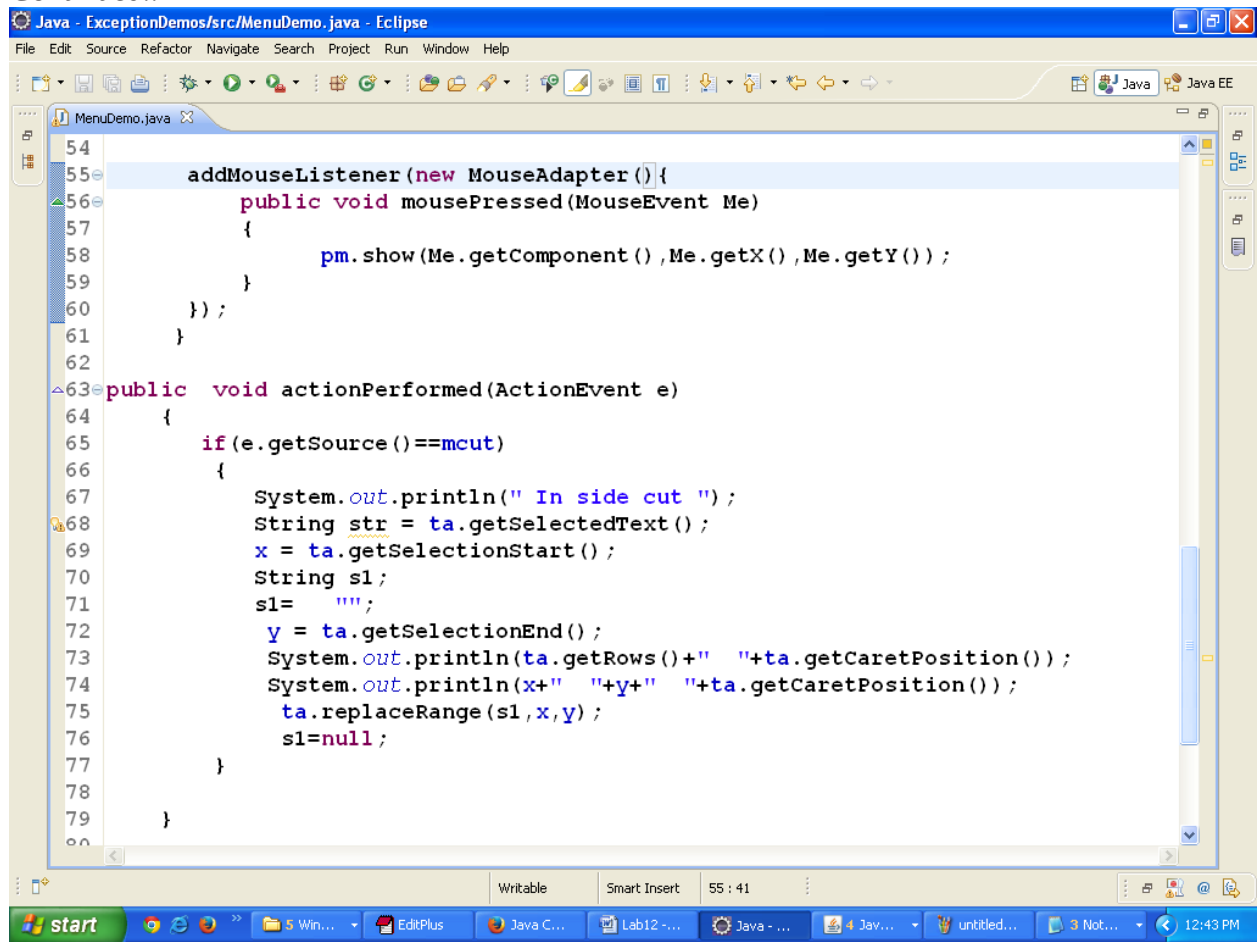Run as-> Java Application
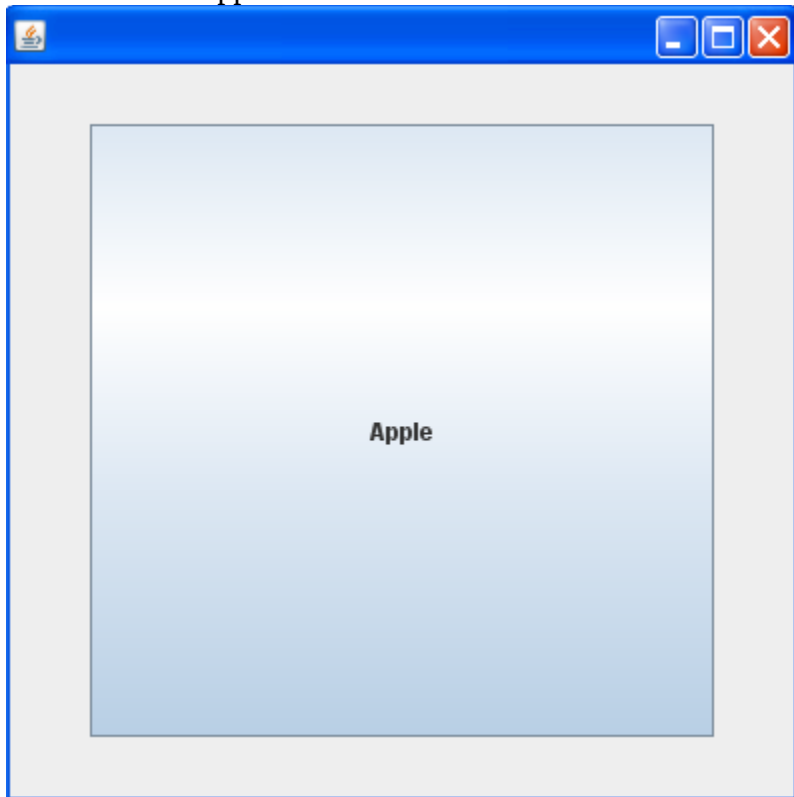
Demo 3: MenuDemo

```java
1  import java.awt.*;

3  class MenuDemo extends Frame implements ActionListener{
4      MenuBar mb;
5      Menu mfile, medit, mview;
6      MenuItem mnew, mclose, mopen,mcut,mcopy,mpaste,mfont,mtab,mzoom;
7      TextArea ta;
8      PopupMenu pm;
9      int x,y;
10     MenuDemo(String s)   {
11         super(s);
12         mb = new MenuBar();

14         mfile = new Menu("File");
15         medit = new Menu("Edit");
16         mview = new Menu("View");

18         mnew = new MenuItem("New");
19         mopen = new MenuItem("Open");
20          mclose= new MenuItem("Close");

22         mfile.add(mnew);
23         mfile.add(mopen);
24         mfile.add(mclose);

26         mcut = new MenuItem("Cut");
27         mcopy= new MenuItem("Copy");
28         mpaste = new MenuItem("Paste");
```

Continued..

```java
28         mpaste = new MenuItem("Paste");

30         medit.add(mcut);
31         medit.add(mcopy);
32         medit.add(mpaste);

34        mfont = new MenuItem("Font");
35        mtab= new MenuItem("Tab");
36        mzoom = new MenuItem("Zoom");

38         mview.add(mfont);
39         mview.add(mtab);
40         mview.add(mzoom);

42       ta = new TextArea();
43       add(ta);
44       mcut.addActionListener(this);

46        pm=new PopupMenu();
47        //add(pm);

49         mb.add(mfile);
50         mb.add(medit);
51         mb.add(mview);

53         this.setMenuBar(mb);
54
```

Continued..


```
54
55⊖        addMouseListener(new MouseAdapter(){
56⊖            public void mousePressed(MouseEvent Me)
57            {
58                    pm.show(Me.getComponent(),Me.getX(),Me.getY());
59            }
60        });
61      }
62
63⊖public  void actionPerformed(ActionEvent e)
64      {
65        if(e.getSource()==mcut)
66          {
67            System.out.println(" In side cut ");
68            String str = ta.getSelectedText();
69            x = ta.getSelectionStart();
70            String s1;
71            s1=   "";
72             y = ta.getSelectionEnd();
73             System.out.println(ta.getRows()+"  "+ta.getCaretPosition());
74             System.out.println(x+"  "+y+"  "+ta.getCaretPosition());
75              ta.replaceRange(s1,x,y);
76              s1=null;
77          }
78
79      }
80
```
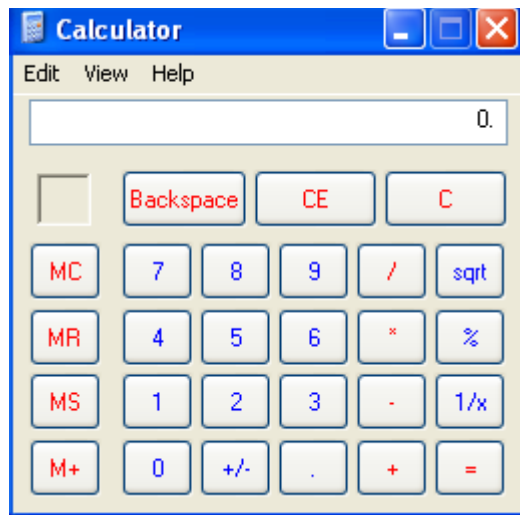
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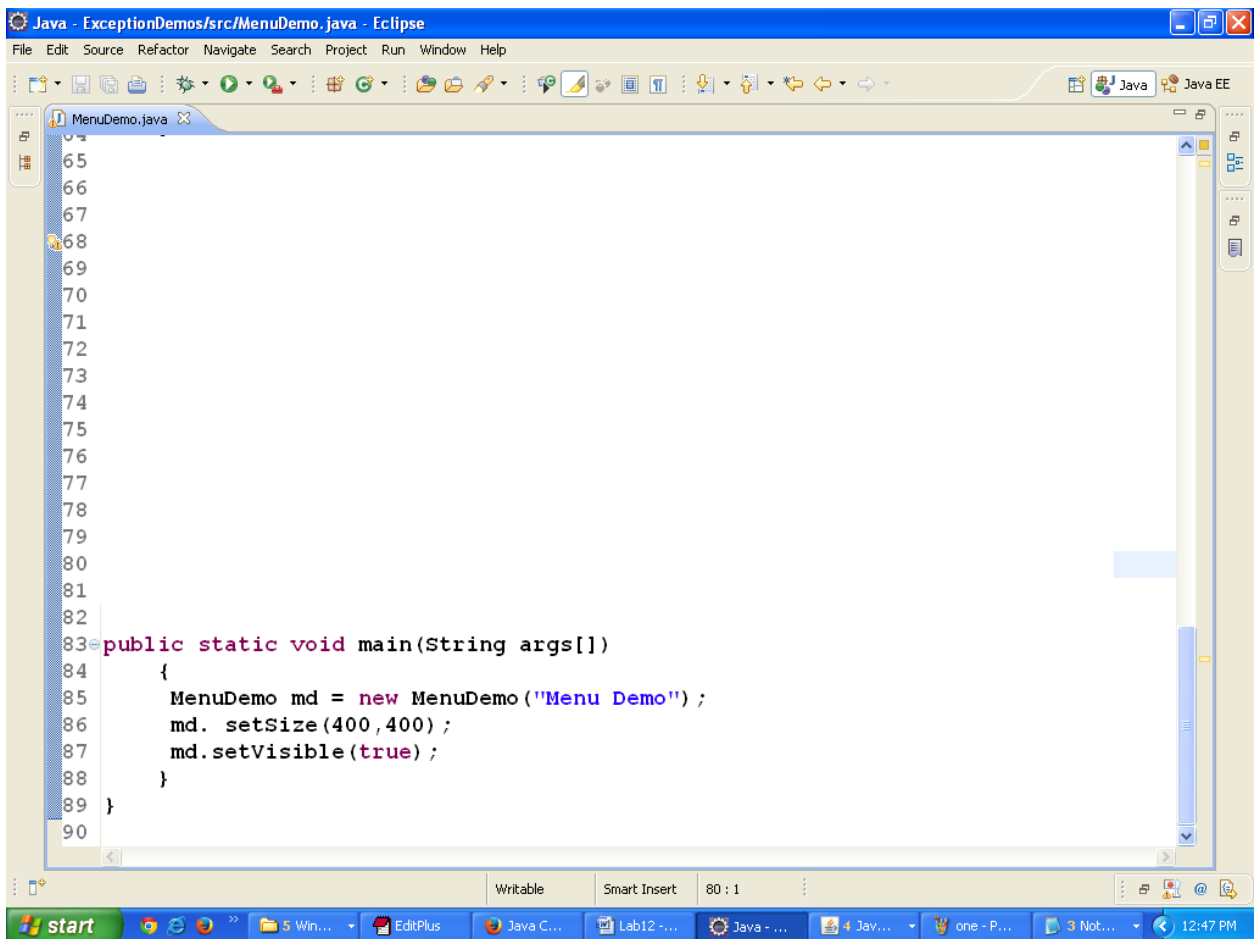
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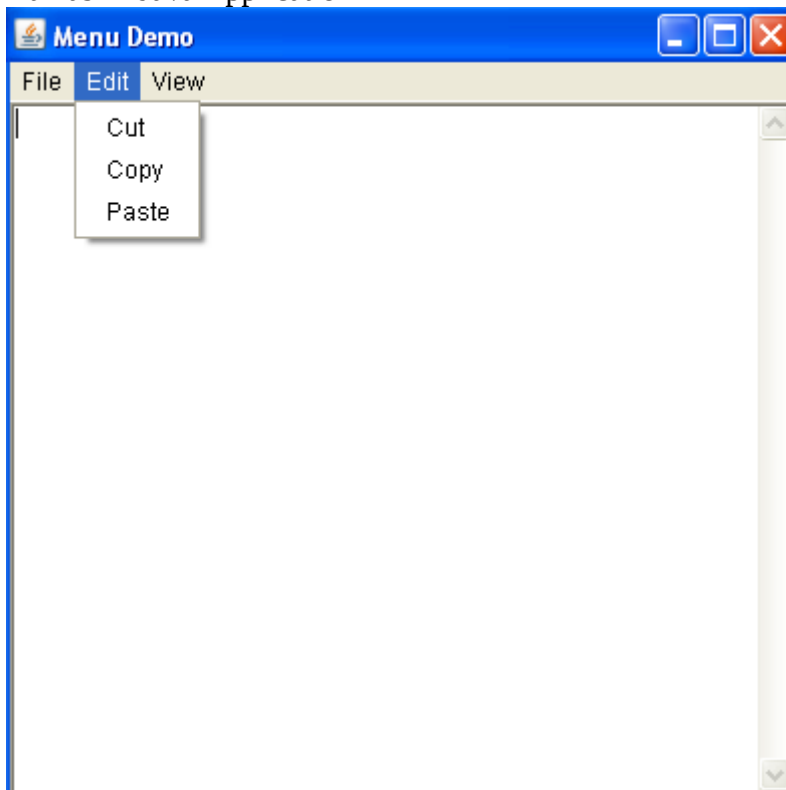
Assignments To Solve

1. Design the calculator

2: Design Notepad