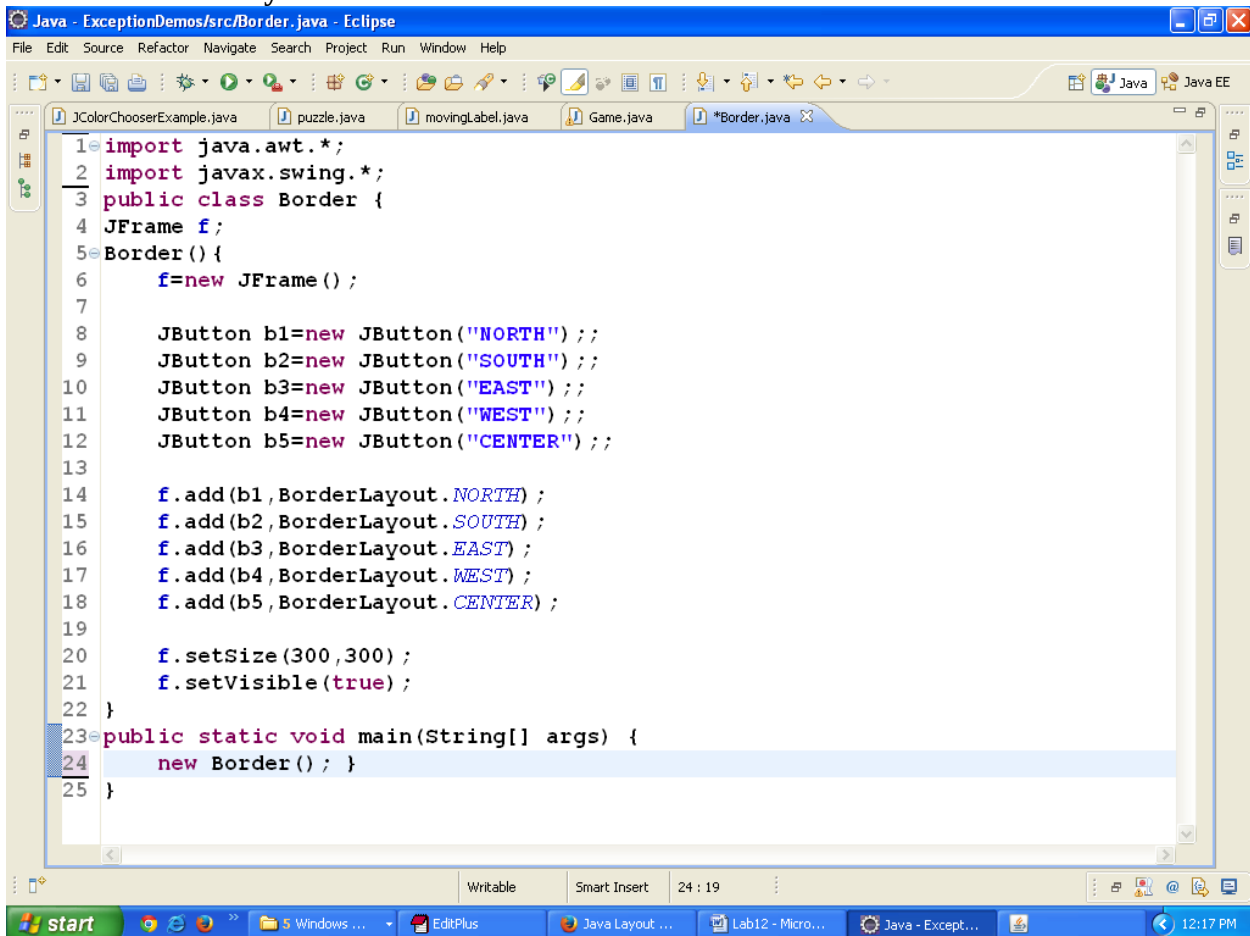


# Lab-12 Assignments

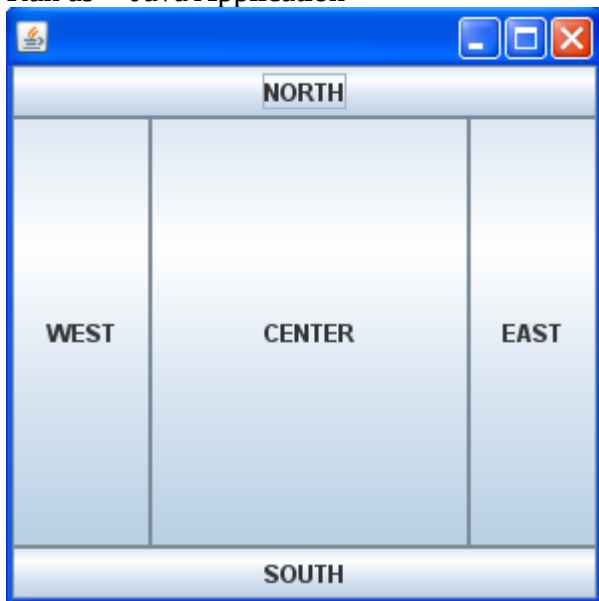
## Layouts, Menus & Dialog

### Demo 1: BorderLayout



```
1 import java.awt.*;
2 import javax.swing.*;
3 public class Border {
4     JFrame f;
5     Border() {
6         f=new JFrame();
7
8         JButton b1=new JButton("NORTH");
9         JButton b2=new JButton("SOUTH");
10        JButton b3=new JButton("EAST");
11        JButton b4=new JButton("WEST");
12        JButton b5=new JButton("CENTER");
13
14        f.add(b1, BorderLayout.NORTH);
15        f.add(b2, BorderLayout.SOUTH);
16        f.add(b3, BorderLayout.EAST);
17        f.add(b4, BorderLayout.WEST);
18        f.add(b5, BorderLayout.CENTER);
19
20        f.setSize(300,300);
21        f.setVisible(true);
22    }
23    public static void main(String[] args) {
24        new Border();
25    }
```

Run as-> Java Application



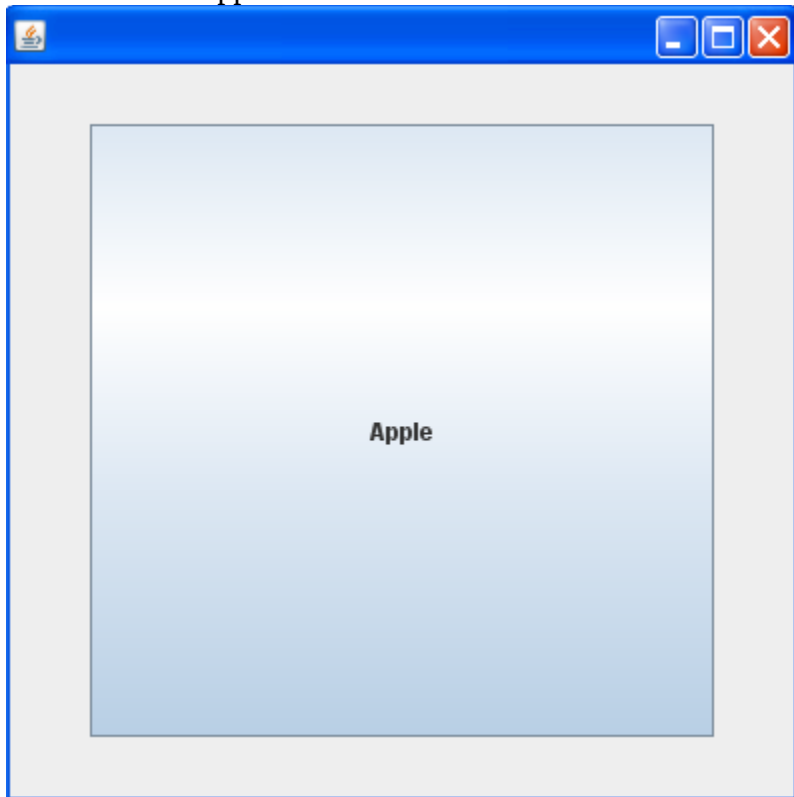
### Demo 2: CardLayout

```
Java - ExceptionDemos/src/CardLayoutExample.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

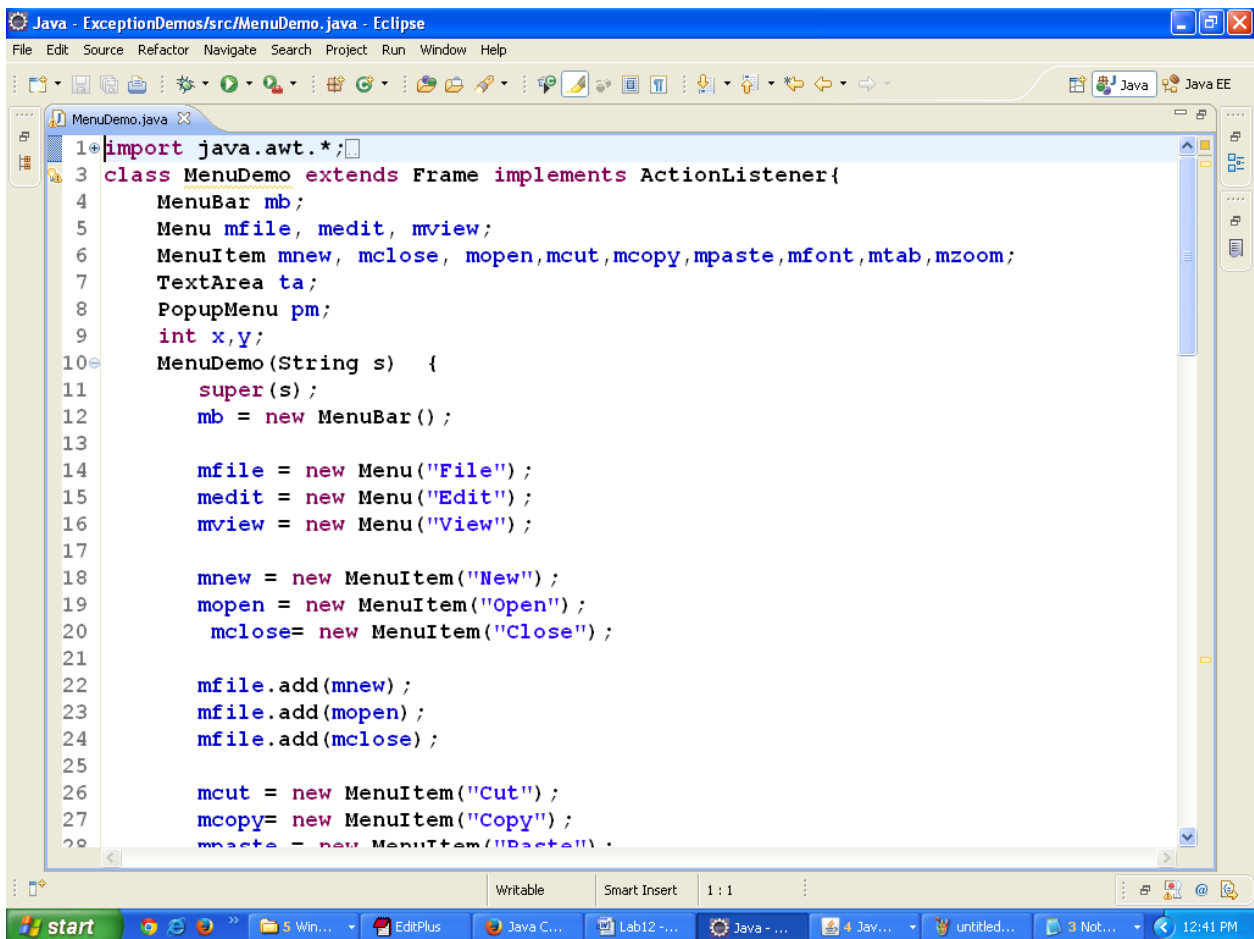
JColorChooserExample.java puzzle.java movingLabel.java Game.java Border.java CardLayoutExample.java

1 import java.awt.*;
2 import java.awt.event.*;
3 import javax.swing.*;
4 public class CardLayoutExample extends JFrame implements ActionListener{
5     CardLayout card;
6     JButton b1,b2,b3;
7     Container c;
8     CardLayoutExample(){
9         c=getContentPane();
10        card=new CardLayout(40,30);
11        //create CardLayout object with 40 hor space and 30 ver space
12        c.setLayout(card);
13        b1=new JButton("Apple");
14        b2=new JButton("Boy");
15        b3=new JButton("Cat");
16        b1.addActionListener(this);
17        b2.addActionListener(this);
18        b3.addActionListener(this);
19        c.add("a",b1);c.add("b",b2);c.add("c",b3);
20    }
21    public void actionPerformed(ActionEvent e) {
22        card.next(c);
23    }
24    public static void main(String[] args) {
25        CardLayoutExample cl=new CardLayoutExample();
26        cl.setSize(400,400);
27        cl.setVisible(true);
28        cl.setDefaultCloseOperation(EXIT_ON_CLOSE);
29    }
}
```

Run as-> Java Application

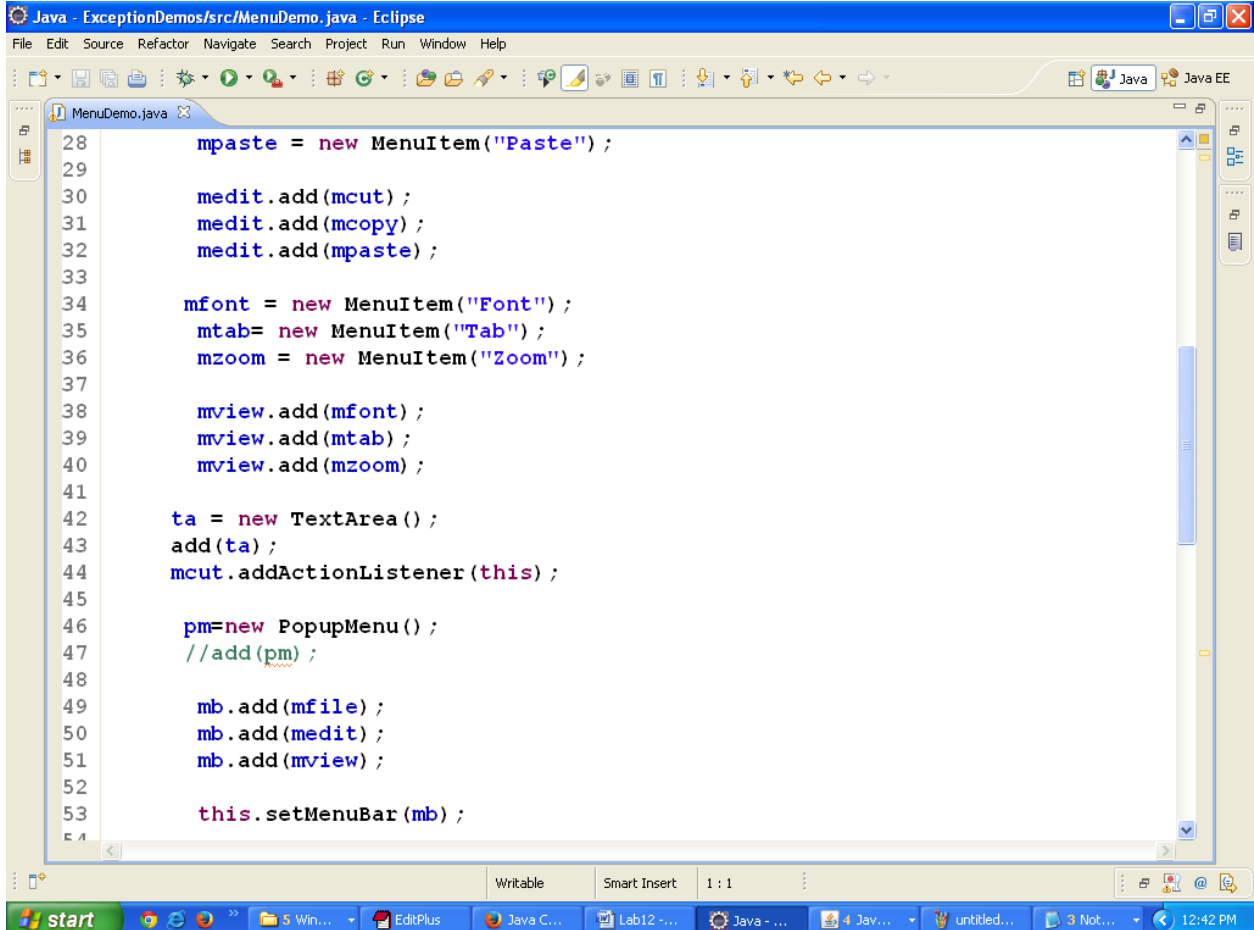


Demo 3: MenuDemo



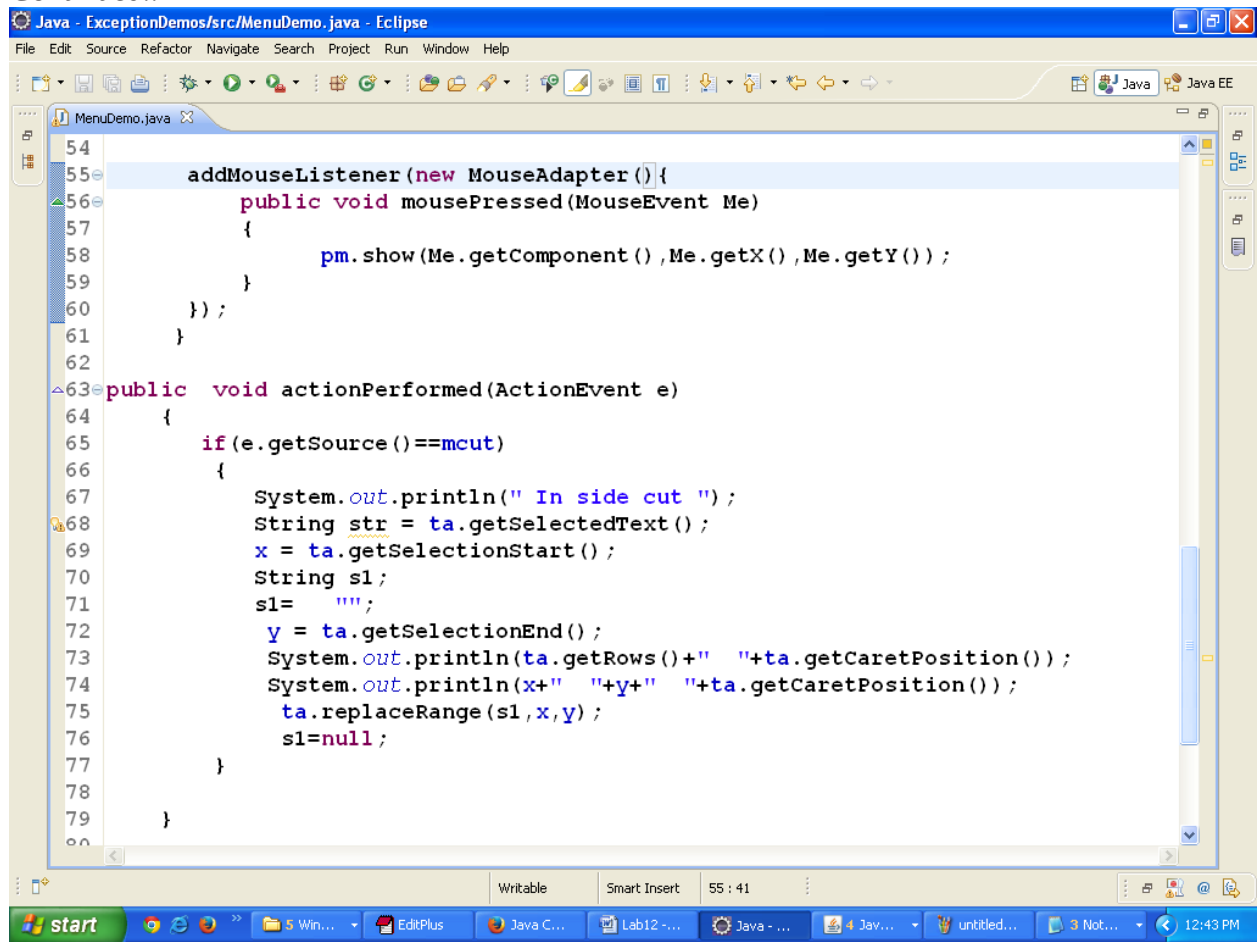
```
1 import java.awt.*;
2
3 class MenuDemo extends Frame implements ActionListener{
4     MenuBar mb;
5     Menu mfile, medit, mview;
6     MenuItem mnew, mclose, mopen, mcut, mcopy, mpaste, mfont, mtab, mzoom;
7     TextArea ta;
8     PopupMenu pm;
9     int x,y;
10    MenuDemo(String s) {
11        super(s);
12        mb = new MenuBar();
13
14        mfile = new Menu("File");
15        medit = new Menu("Edit");
16        mview = new Menu("View");
17
18        mnew = new MenuItem("New");
19        mopen = new MenuItem("Open");
20        mclose = new MenuItem("Close");
21
22        mfile.add(mnew);
23        mfile.add(mopen);
24        mfile.add(mclose);
25
26        mcut = new MenuItem("Cut");
27        mcopy = new MenuItem("Copy");
28        mpaste = new MenuItem("Paste");
```

Continued..



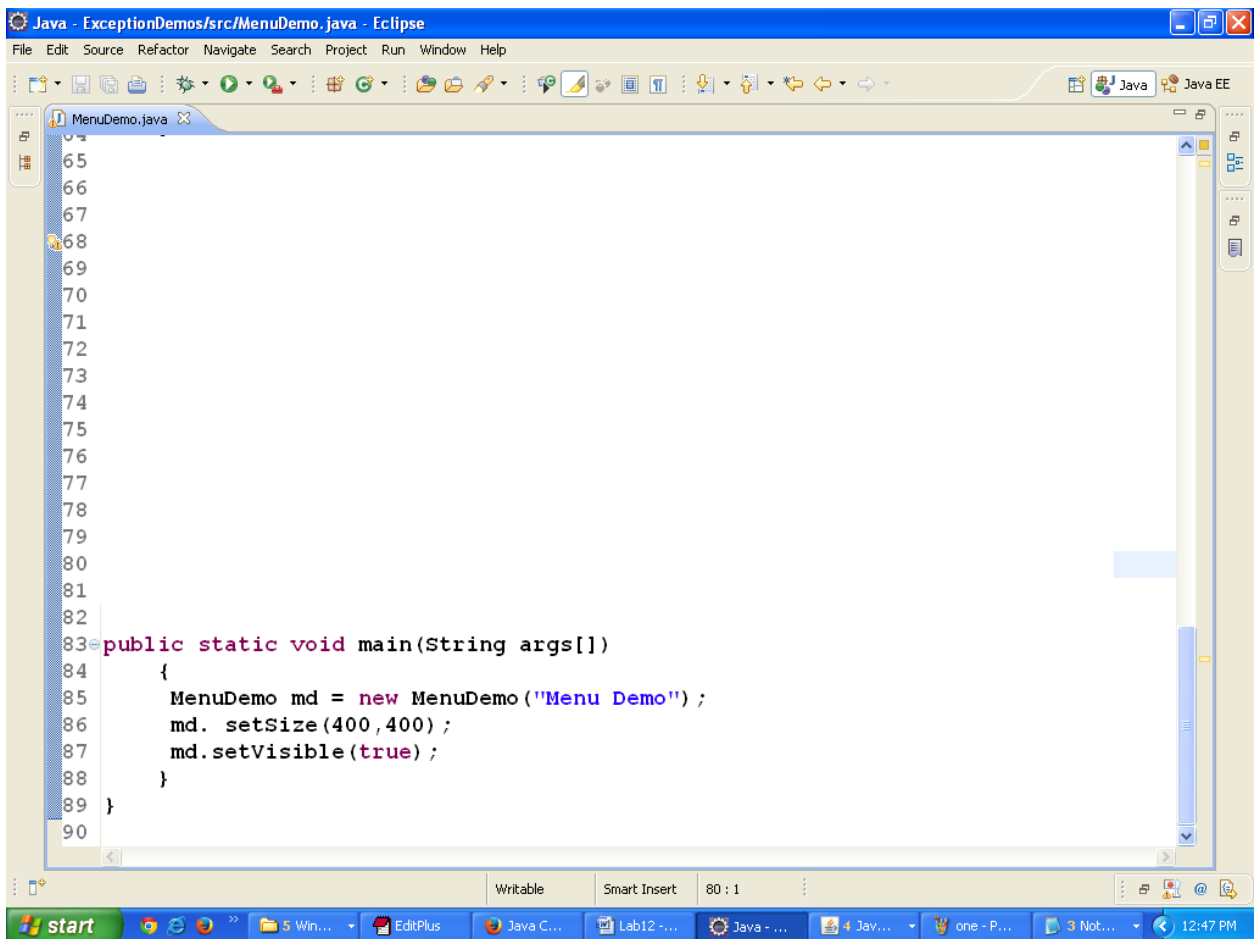
```
28        mpaste = new MenuItem("Paste");
29
30        medit.add(mcut);
31        medit.add(mcopy);
32        medit.add(mpaste);
33
34        mfont = new MenuItem("Font");
35        mtab = new MenuItem("Tab");
36        mzoom = new MenuItem("Zoom");
37
38        mview.add(mfont);
39        mview.add(mtab);
40        mview.add(mzoom);
41
42        ta = new TextArea();
43        add(ta);
44        mcut.addActionListener(this);
45
46        pm = new PopupMenu();
47        //add(pm);
48
49        mb.add(mfile);
50        mb.add(medit);
51        mb.add(mview);
52
53        this.setMenuBar(mb);
```

Continued..

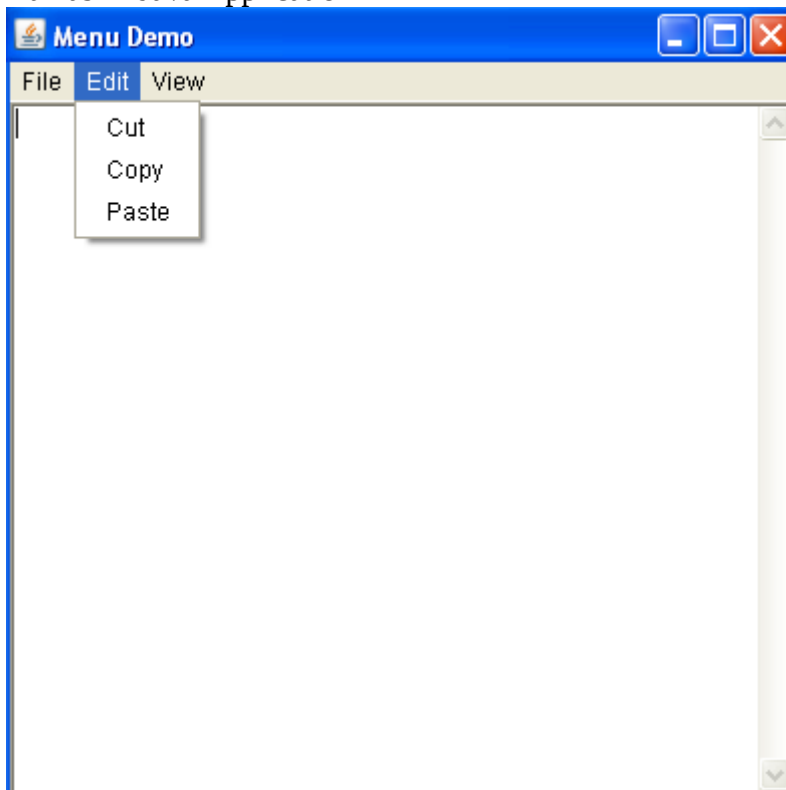


```
54
55 addMouseListener(new MouseAdapter() {
56     public void mousePressed(MouseEvent Me)
57     {
58         pm.show(Me.getComponent(), Me.getX(), Me.getY());
59     }
60 });
61
62
63 public void actionPerformed(ActionEvent e)
64 {
65     if(e.getSource() == mcut)
66     {
67         System.out.println(" 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
```

Continued...

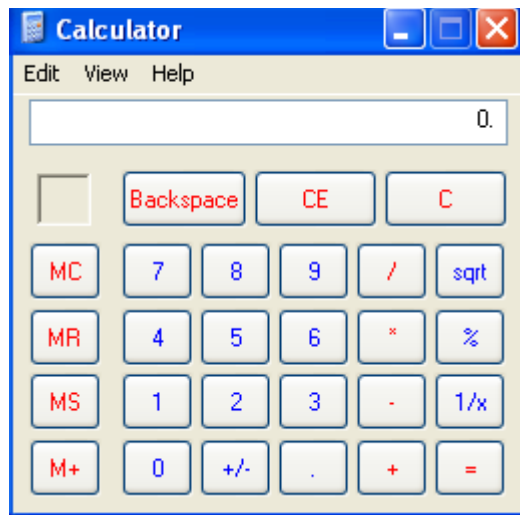


Run as -> Java Application



## Assignments To Solve

1. Design the calculator



## 2: Design Notepad

