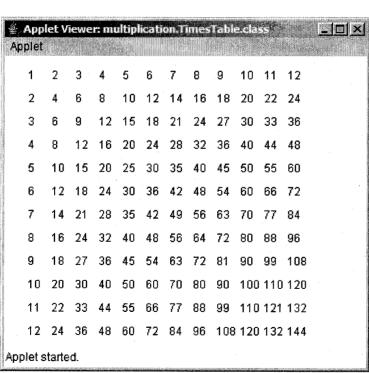
```
* Chris Tjon - Wed 4pm - Ex 8.3 - Milky Way Program
package milkyway;
import java.awt.*;
import java.applet.Applet;
public class Milky Way extends Applet
  private Scrollbar lengthBar, heightBar;
  private int height = 100, length = 100;
  public void paint(Graphics g)
        int xpos;
        int ypos;
        int diameter;
     for (int i = 0; i < 100; i++)
        xpos = (int)((Math.random() * 200) + 1);
        ypos = (int)((Math.random() * 200) + 1);
        diameter = (int)((Math.random() * 100) + 1);
        g.drawOval(xpos, ypos, diameter, diameter);
  }
 🖆 Applet Viewer: milkyway.MilkyWay.cla
 Applet
 Applet started.
```

Daniedle





Danio Oll Meners 13 column

```
* Chris Tjon - Wed 4pm - Ex 7.8 - Calculator Program
package calculator;
import java.applet.*;
import java.awt.*;
import java.awt.event.*;
public class Calculator extends Applet implements ActionListener
  private Button one, two, three, four, five, six, seven,
                                eight, nine, zero, plus, minus, equals, clear;
  private int input;
  private int total;
  public void init()
     one = new Button("1");
     add (one);
                                                                James OK
     one.addActionListener(this);
     two = new Button("2");
     add (two);
     two.addActionListener(this);
     three = new Button ("3");
     add (three);
     three.addActionListener(this);
     four = new Button ("4");
     add (four);
     four.addActionListener(this);
     five = new Button ("5");
     add (five);
     five.addActionListener(this);
     six = new Button ("6");
     add (six);
     six.addActionListener(this);
     seven = new Button ("7");
     add (seven);
     seven.addActionListener(this);
     eight = new Button ("8");
     add (eight);
     eight.addActionListener(this);
     nine = new Button ("9");
```

```
add (nine);
  nine.addActionListener(this);
  zero = new Button ("0");
  add (zero);
  zero.addActionListener(this);
  plus = new Button ("+");
  add (plus);
  plus.addActionListener(this);
  minus = new Button ("-");
  add (minus):
  minus.addActionListener(this);
  equals = new Button ("=");
  add (equals);
  equals.addActionListener(this);
  clear = new Button ("Clear");
  add (clear);
  clear.addActionListener(this);
public void paint(Graphics g)
     g.drawString ("Input = " + input, 50,130);
     g.drawString ("Total = " + total, 50,150);
public void actionPerformed(ActionEvent event) {
  if (event.getSource() == one)
     input = (input * 10) + 1;
  if (event.getSource() == two)
     input = (input * 10) + 2;
  if (event.getSource() == three)
    input = (input * 10) + 3;
  if (event.getSource() == four)
     input = (input * 10) + 4;
  if (event.getSource() == five)
     input = (input * 10) + 5;
  if (event.getSource() == six)
     input = (input * 10) + 6;
  if (event.getSource() == seven)
     input = (input * 10) + 7;
```

```
if (event.getSource() == eight)
      input = (input * 10) + 8;
    if (event.getSource() == nine)
      input = (input * 10) + 9;
    if (event.getSource() == zero)
      input = (input * 10) + 0;
    if (event.getSource() == plus)
       total += input;
       input = 0;
    if (event.getSource() == minus)
       total -= input;
       input = 0;
    if (event.getSource() == equals)
       input = total;
    if (event.getSource() == clear)
      input = 0;
      total = 0;
    repaint();
😩 Applet Viewer: calcul... 🗷 🔳 🔀
Applet
              Clear
        Input = 13
        Total = 13
Applet started.
```