

```
1 // PiCalc.java, calculating pi through infinite series.
2
3 import java.applet.Applet;
4 import java.awt.*;
5 import java.awt.event.*;
6
7 public class PiCalc extends Applet implements ActionListener {
8
9     Label prompt1;
10    TextField input1;
11    double value, indival;
12    int counter, loopnum;
13
14    Button go_button = new Button("Go!");
15
16    public void init() {
17        prompt1 = new Label( "Number of iterations" );
18        add( prompt1 );
19
20        input1 = new TextField( 10 );
21        add( input1 );
22
23        go_button.addActionListener( this );
24        add( go_button );
25
26    }
27
28
29    public void paint( Graphics g ) {
30        g.drawString( Double.toString( value ), 70, 125 );
31    }
32
33
34    public void actionPerformed( ActionEvent e) {
35        value=0;
36
37        loopnum = Integer.parseInt( input1.getText() );
38
39
40        for (counter = 1 ; counter <= loopnum; counter++ ) {
41            indival = 4.0 / (counter * 2.0 - 1.0);
42            if ( ( counter / 2.0 ) == ( (int) (counter/2.0)) )
43                value = value - indival;
44            else
45                value = value + indival;
46        }
47        repaint();
48    }
49}
50}
51}
```

```
1  <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML//EN">
2  <html>
3      <head>
4          <title>PiCalc</title>
5      </head>
6
7      <body>
8          <h1>PiCalc</h1>
9
10         <applet code="PiCalc.class" width=300 height=250></applet>
11
12
13         <hr>
14         <address><a href="mailto:taper@wtower.com"></a></address>
15         <!-- Created: Sun Jan 23 23:45:29 PST 2000 -->
16         <!-- hhmts start -->
17         Last modified: Sun Jan 23 23:45:43 PST 2000
18         <!-- hhmts end -->
19     </body>
20 </html>
21
```

# PiCalc

Number of iterations

10

Go!

3.0418396189294032

# PiCalc

Number of iterations

3.09162380666784

# PiCalc

Number of iterations    100

3.1415929035585537

# PiCalc

Number of iterations

3.140592653839794

# PiCalc

Number of iterations

3.1415926535897198

# PiCalc

Number of iterations

3.1415876535897618