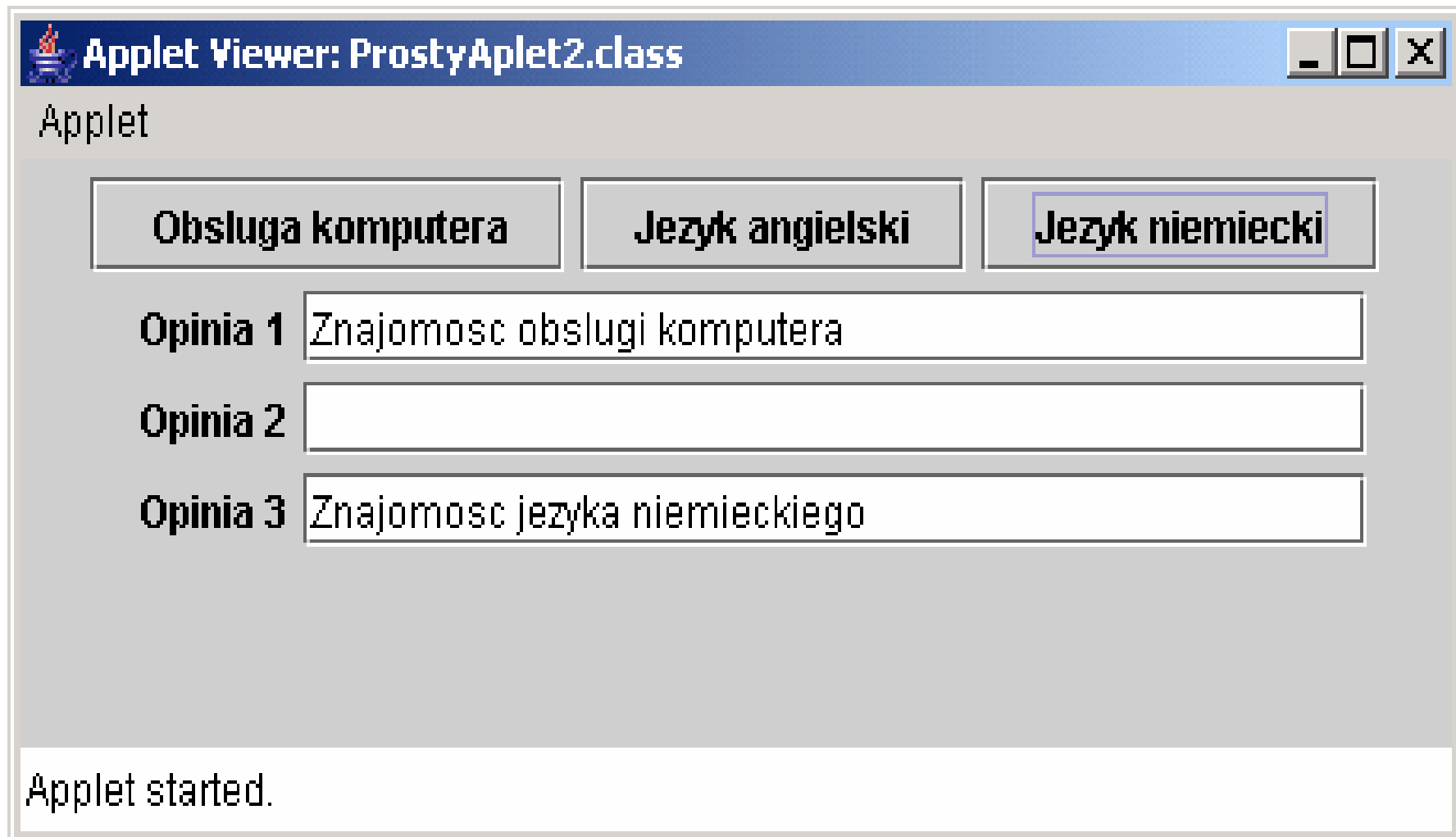


**Interaktywne aplety – obsługa zdarzeń,
uruchamianie apletu przez przeglądarkę
lub maszynę wirtualną Javy.
Tworzenie łącz w apletach**

Przykład 1

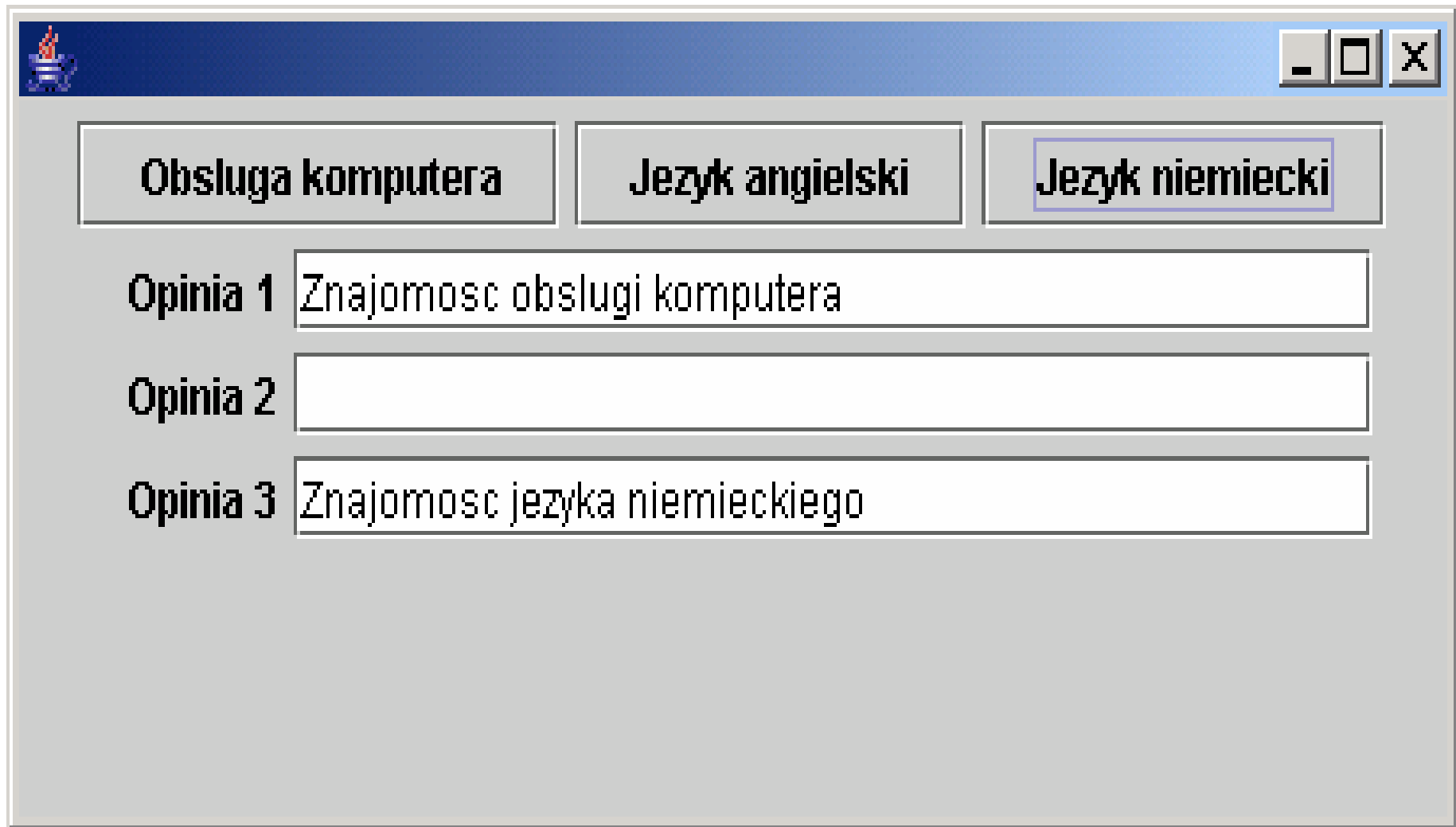
a) Program **ProstyAplet2.class** uruchomiony jako aplet w przeglądarce (appletviewer) za pomocą pliku typu html



Plik typu html do uruchamiania apletu w przeglądarce

```
<HTML>  
<HEAD>  
</HEAD>  
<BODY BGCOLOR="000000">  
<CENTER>  
<APPLET  
    codebase = "classes"  
    code     = "ProstyAplet2.class"  
    width   = "450"  
    height  = "200"  
>  
</APPLET>  
</CENTER>  
</BODY>  
</HTML>
```

b) Ten sam program **ProstyAplet2.class** uruchomiony jako aplikacja za pomocą maszyny wirtualnej Javy (java) po zdefiniowaniu metody **main**



```
import javax.swing.*;  
import java.util.*;  
import java.io.*;  
import java.lang.*;  
import java.awt.event.*;
```

```
class Dane  
{ String opinia1, opinia2, opinia3;  
  Dane()  
  { opinia1=opinia2=opinia3=null;  
  }  
}
```

```
public class ProstyAplet2 extends JApplet
                implements ActionListener
{
    JButton weopinia1=new JButton ("Obsluga komputera");
    JButton weopinia2 = new JButton("Jezyk angielski");
    JButton weopinia3 = new JButton("Jezyk niemiecki");
    JTextField wyopinia1=new JTextField(30);
    JTextField wyopinia2=new JTextField(30);
    JTextField wyopinia3=new JTextField(30);
    Dane dana = new Dane();
}
```

```
public void init() {  
    JPanel panel=new JPanel();  
    weopinia1.addActionListener(this);  
    weopinia2.addActionListener(this);  
    weopinia3.addActionListener(this);  
    panel.add(weopinia1);  
    panel.add(weopinia2);  
    panel.add(weopinia3);  
    JLabel eopinia1=new JLabel(" Opinia 1",SwingConstants.RIGHT);  
    panel.add(eopinia1);  
    panel.add(wyopinia1);  
    JLabel eopinia2=new JLabel("Opinia 2",SwingConstants.RIGHT);  
    panel.add(eopinia2);  
    panel.add(wyopinia2);  
    JLabel eopinia3=new JLabel("Opinia 3",SwingConstants.RIGHT);  
    panel.add(eopinia3);  
    panel.add(wyopinia3);  
    setContentPane(panel);  
}
```

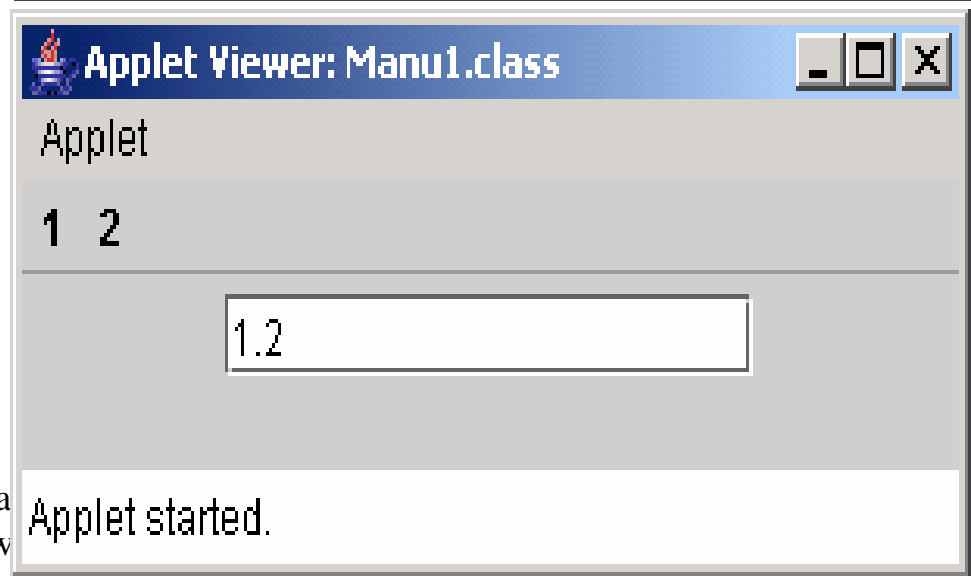
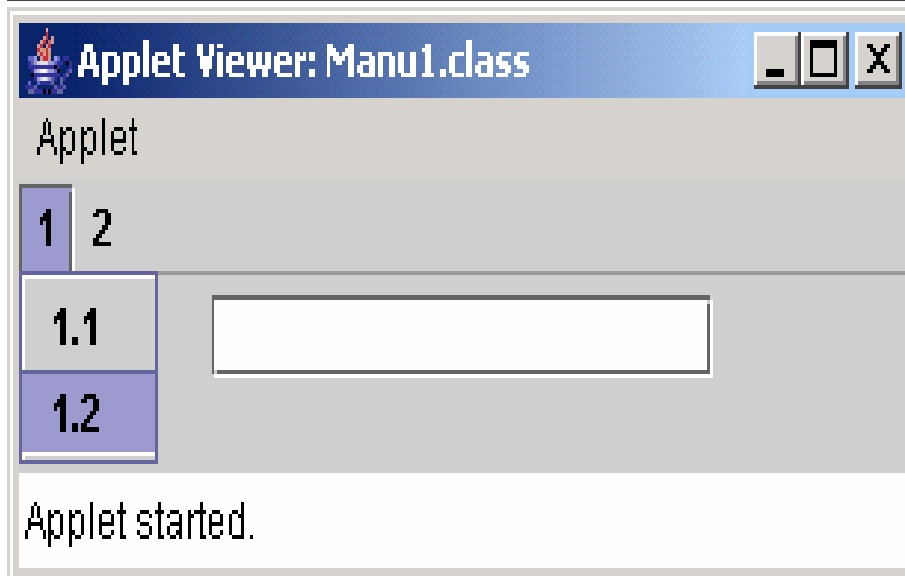
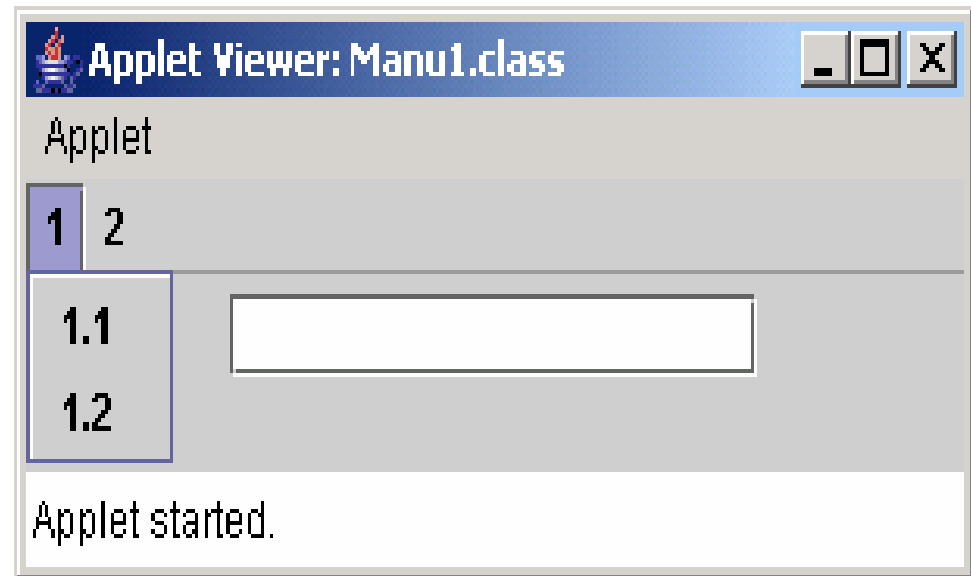
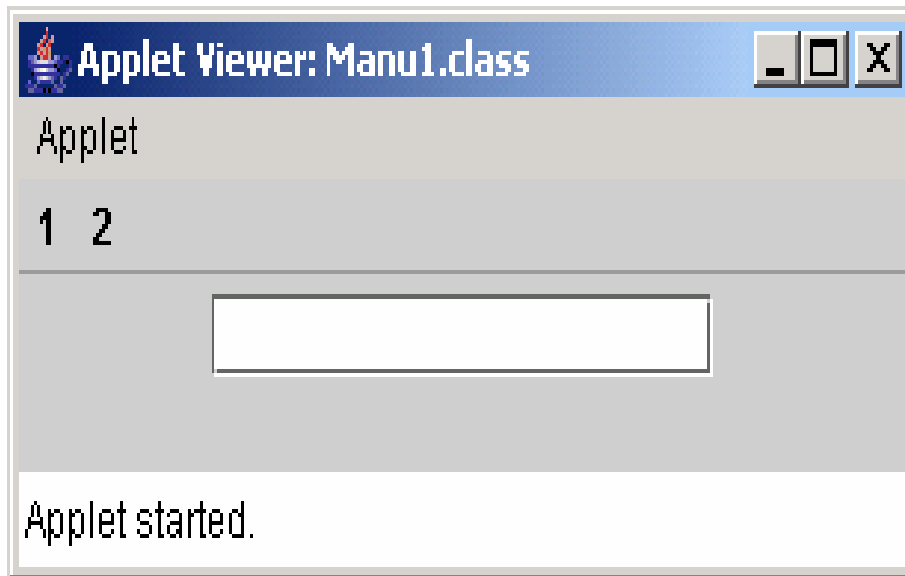
```
public void actionPerformed (ActionEvent evt)
{
    Object zrodlo = evt.getSource();
    if(zrodlo==weopinia1)
        dana.opinia1=new String("Znajomosc obslugi komputera");
    else if(zrodlo==weopinia2)
        dana.opinia2=new String("Znajomosc jezyka angielskiego");
    else if(zrodlo==weopinia3)
        dana.opinia3=new String("Znajomosc jezyka niemieckiego");
    wyopinia1.setText(dana.opinia1);
    wyopinia2.setText(dana.opinia2);
    wyopinia3.setText(dana.opinia3);
    repaint();
}
}
```


Metoda main umożliwiająca uruchomienie apletu jako aplikacji

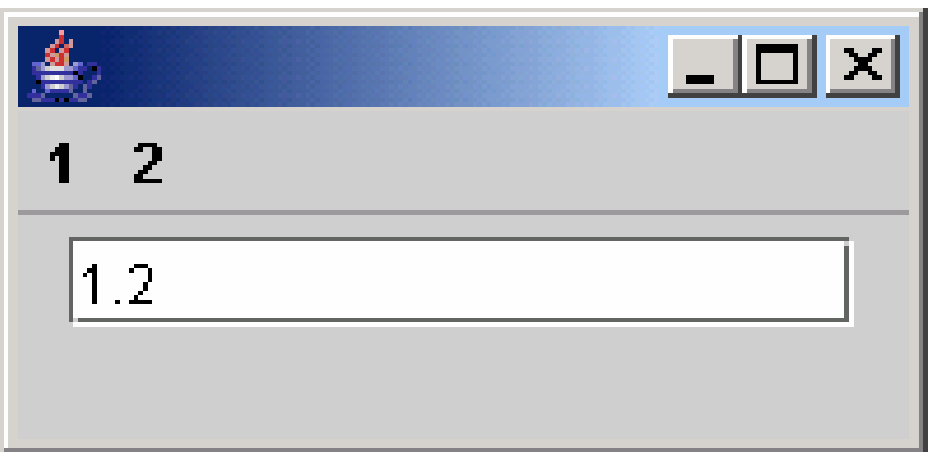
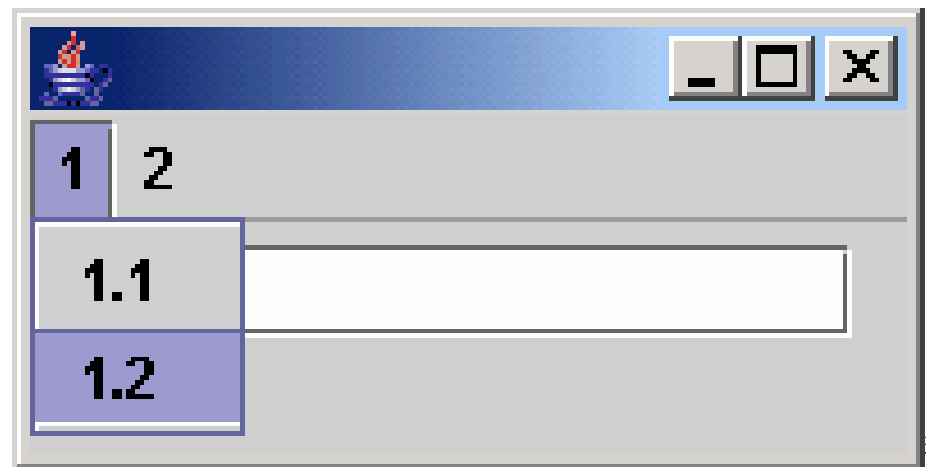
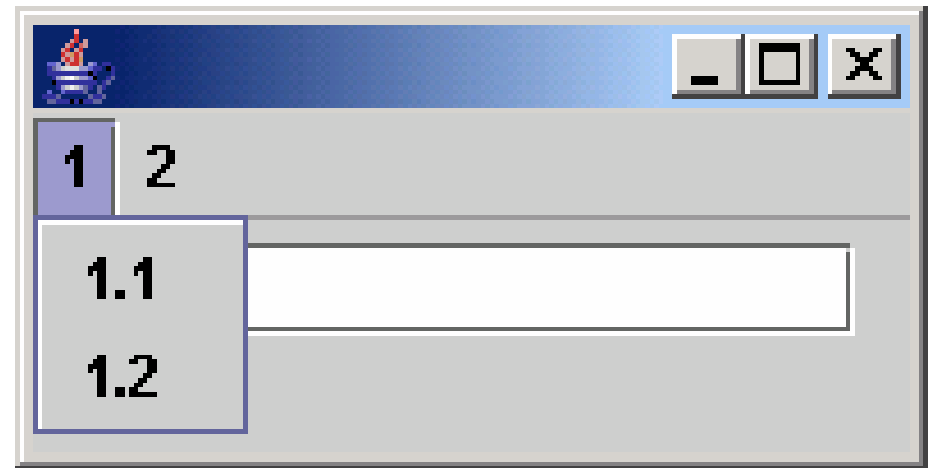
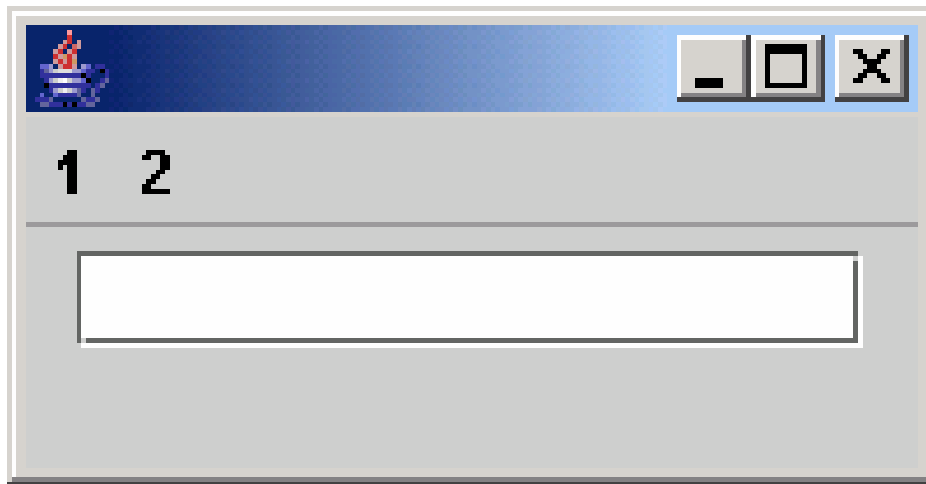
```
public static void main(String t [])  
{ ProstyAplet2 aplet=new ProstyAplet2();  
  aplet.init();  
  aplet.start();  
  JFrame frame = new JFrame();  
  frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
  frame.setContentPane(aplet);  
  frame.setSize(450, 200);  
  frame.setVisible(true);  
}
```

Przykład 2

a) Program **Manu1.class** uruchomiony jako aplet w przeglądarce (appletviewer) za pomocą pliku typu html



b) Ten sam program **Manu1.class** uruchomiony jako aplikacja za pomocą maszyny wirtualnej Javy (java) po zdefiniowaniu metody **main**



```
import javax.swing.JFrame;  
import javax.swing.JMenu;  
import javax.swing.JMenuBar;  
import javax.swing.JMenuItem;  
import javax.swing.JTextField;  
import javax.swing.JApplet;  
import java.awt.Container;  
import java.awt.FlowLayout;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;
```

```
public class Menu1 extends JApplet implements ActionListener
```

```
{ private JTextField napis = new JTextField(15);  
  private JMenu[] menu =  
      { new JMenu("1"), new JMenu("2") };  
  private JMenuItem[] items =  
      { new JMenuItem("1.1"), new JMenuItem("2.1"),  
        new JMenuItem("1.2"), new JMenuItem("2.2") };
```

```

public void init() {
    for (int i = 0; i < items.length; i++)
        { items[i].addActionListener(this);
          menu[i % 2].add(items[i]); }
    JMenuBar menubar = new JMenuBar();
    for (int i = 0; i < menu.length; i++)
        menubar.add(menu[i]);
    setJMenuBar(menubar);
    Container cp = getContentPane();
    cp.setLayout(new FlowLayout());
    cp.add(napis);
}

public void actionPerformed(ActionEvent e)
    { JMenuItem item= (JMenuItem) e.getSource();
      String s=item.getText();
      napis.setText(s); }
}

```

Metoda main umożliwiająca uruchomienie apletu jako aplikacji

```
public static void main(String t[])  
{  
    Manu1 aplet=new Manu1();  
    aplet.init();  
    aplet.start();  
    JFrame frame = new JFrame();  
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    frame.setContentPane(aplet);  
    frame.setSize(200, 100);  
    frame.setVisible(true);  
}  
}
```

Tworzenie łącz w apletach

W pliku html zastosowano znacznik PARAM z atrybutami: **name** oraz **value**

```
<HTML>
<HEAD>
</HEAD>
<BODY BGCOLOR="000000">
<CENTER>
<APPLET
  codebase = "classes"
  code = "P5_9.class" width = "500" height = "300" >
<PARAM name=adres1 value= http://www.obscurestore.com/">
<PARAM name = adres2 value = "http://www.ntk.net/">
</APPLET>
</CENTER>
</BODY>
</HTML>
```

```

import java.net.*;
import java.awt.*;
import java.applet.*;
public class P5_9 extends Applet
{ String a, b;
  public void paint(Graphics g)
  { a = getParameter("adres1");      //pobieranie parametru adres1 z pliku html
    b = getParameter("adres2");      //pobieranie parametru adres2 z pliku html
    if (a == null)  a = "http://www.eka.pwr.wroc.pl/";
    if (b == null)  b = "http://www.eka.pwr.wroc.pl/";
    try
    { URL load1 = new URL (a);
      // pobranie i wyświetlenie strony www o adresie a w bieżącym oknie przeglądarki
      getAppletContext().showDocument(load1);
    } catch (MalformedURLException e)
    { System.out.println("Zły url "+a); }
    try
    { URL load2 = new URL (b);
      // pobranie i wyświetlenie strony www o adresie b w nowym oknie przeglądarki
      getAppletContext().showDocument(load2, "_blank");
    } catch (MalformedURLException e)
    {System.out.println("Zły url "+b);}
  }
}

```


THE **Obscure Store** & READING ROOM

Posted Friday, May 7, 2004

[Man insists on voting despite signs of a possible stroke](#)

A poll worker says of the 74-year-old man: "So many people don't take the time to vote and could care less, and here was this guy who **wanted to vote before he dies.** We were all in tears.'" (*Indianapolis Star*)

[Update: Thirty women try to wow guy to get dance date](#)

"I'm just thinking 'wow,' because people actually showed up," says **Drew Bailey.** "That's the most amazing thing." Some guys auditioned, too. (*TheUnion.com*)

> [Earlier: High school student holds auditions for senior ball date](#)

[Politicos OK bill that makes wearing butt-exposing pants a crime](#)

"I don't relish the idea of seeing **the beginning of people's pubic hair,**" says councilman Glenn Green. "I don't relish seeing the beginning of the crease of people's buttocks. And I don't enjoy watching young men letting their sexual organs show through their red or black silk underwear." (*Baton Rouge Advocate*)

["Crybaby" coach told to apologize to boy, parents](#)

The coach who handed out a "crybaby award" will keep his job. "We have a young man here who made **a bone-head mistake,**" says the school superintendent. "He has a lot to offer this district as a young teacher ... and we think he has a good future here." (*PressofAtlanticCity.com/need a loan/nw?*)

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http://news.com.com/2100-1032_3-5207202.html

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the old bamboos

The WIPO broadcasting rights treaty - in which starving media corporations gratefully acquire a new IP right to control recordings of their broadcasts (because as everyone knows, home taping is killing broadcasters) slinks toward ratification. The final draft is up for discussion by government representatives this week. Just in time for a bit of democratic involvement: except nobody quite knows who those representatives are. THE UNION FOR THE PUBLIC DOMAIN is an old pressure group (with RMS, EFF dignitaries and