

CIS 200 Lab #2

Today we will construct a working applet and if we have time add the applet to our KSU CNS personal web page.

Part One – Creating an Applet

- 1) Open the BlueJ tool
- 2) Create a new project and name it **Lab2**
- 3) **Save** it to the disk (of your preference)
- 4) **Create** a new class of type **Applet**
- 5) **Name** the class **Lab2** (resultant filename is *Lab2.java*)
- 6) **Compile** the class (resultant filename is *Lab2.class*)
- 7) **Execute** the project
- 8) Return to **edit** the project and add the code so your project looks like:

```
import java.awt.*;
import javax.swing.*;

public class Lab2 extends JApplet
{
    public void init()
    { Container contentPane = getContentPane();
      JPanel jpanel = new JPanel();
      jpanel.setLayout(new BorderLayout() );
      JLabel label1 = new JLabel("My Lab2 Applet");
      jpanel.add(label1, BorderLayout.NORTH);
      contentPane.add(jpanel);
    }
}
```

- 9) **Compile** the class
- 10) **Execute** the project
- 11) **Go to the editor**
- 12) **Add** the following **bold** lines of code

```
import java.awt.*;
import javax.swing.*;

public class Lab2 extends JApplet
{
    public void init()
    { Container contentPane = getContentPane();
      JPanel jpanel = new JPanel();
      jpanel.setLayout(new BorderLayout() );
      JLabel label1 = new JLabel("My Lab2 Applet");
    }
}
```

```

JLabel label2 = new JLabel("The time is: ");
jpanel.add(label1, BorderLayout.NORTH);
jpanel.add(label2, BorderLayout.CENTER);
contentPane.add(jpanel);

}
}

```

- 13) **Compile** the class
- 14) **Execute** the project
- 15) **Add/Edit** the following **bold** lines of code

```

import java.awt.*;
import javax.swing.*;
import java.util.*;

public class Lab2 extends JApplet
{
GregorianCalendar calendar = new GregorianCalendar();

public void init()
{ Container contentPane = getContentPane();
  JPanel jpanel = new JPanel();
  jpanel.setLayout(new BorderLayout() );

  JLabel label1 = new JLabel("My Lab2 Applet");
  JLabel label2 = new JLabel("The time is: " + calendar.get(Calendar.HOUR)
+
                                     ":" + calendar.get(Calendar.MINUTE)
+ " " + calendar.get(Calendar.SECOND));
  jpanel.add(label1, BorderLayout.NORTH);
  jpanel.add(label2, BorderLayout.CENTER);
  contentPane.add(jpanel);
}
}

```

- 16) **Compile** the class
- 17) **Execute** the project

Part Two: Adding the Applet to your K-State CNS Personal web page (**Optional**)

- 18) Send the **Lab2.class** file and the supplied **Lab2.html** files to your CNS email account
- 19) Login into the CIS/Engr X-Windows emulator
- 20) Use secure shell to access your CNS account: ssh cnsusername@unix.ksu.edu
- 21) Enter your **CNS username** and **password**
- 22) Use the Pine email client (textual) to retrieve your files: **pine**
- 23) It may ask you if you want a Pine profile built answer: **yes**

- 24) Once in Pine, hit the **L** (Folder List), then **I** (Inbox). You should now see your email inbox with some familiar looking email.
- 25) Go to the email that you just sent yourself with the attached files and hit enter
- 26) Type the **>** (shift **.**) key to view attachments and follow the keys to save the attachments to your CNS Unix home directory
- 27) Exit Pine by hitting the **Q** key
- 28) Type **ls** to see your file listing. You should see the files you just unattached from the email
- 29) Execute the command **cp Lab2.class .html/**
- 30) Execute the command **cp Lab2.html .html/**
- 31) Now change directories to the **.html** directory by using the **cd .html**
- 32) Use the **ls** command to make sure both files are there
- 33) Open up a browser and go to the URL: <http://www-personal.ksu.edu/~yourid>
- 34) You should see your index.html page if you have created on previously
- 35) Execute the following command **chmod 775 Lab2.html**
- 36) Execute the following command **chmod 775 Lab2.class**
- 37) Go to the URL: <http://www-personal.ksu.edu/~yourid/Lab2.html>
- 38) You should now see your new page with the Applet inside