PROGRAM TITLE:Create an Applet using Java to display the date and time(dynamically) along with a background image.

PROGRAM CODE:

```java
import java.awt.*;
import java.applet.*;
import java.awt.event.*;
import java.util.*;
/*
 * <applet code ="MyApplet" height="1000" width="1000">
 * </applet>
*/
public class TextBoxTime extends Applet implements ActionListener,Runnable
{
      TextArea txt;
      Thread t;
      Button source;
      Image backGround;
      public void init()
      {
            txt = new TextArea(10,30);
            txt.setEditable(false);//cannot edit the textarea
            add(txt,"center");
            Button time = new Button("Time");
            Button date = new Button("Date");
            time.addActionListener(this);
            date.addActionListener(this);
            add(time);  add(date);
            backGround = getImage(getCodeBase(),"test.jpg");
      }
      public void run()
      {
            while(t.isAlive())
            {
                  txt.setText(" ");
                  Calendar c = new GregorianCalendar();
                  String hh = String.valueOf(c.get(Calendar.HOUR_OF_DAY));//The hour is
taken in the 24 hour format
                  String mm = String.valueOf(c.get(Calendar.MINUTE));
                  String ss = String.valueOf(c.get(Calendar.SECOND));
                  String dd = String.valueOf(c.get(Calendar.DATE));
                  String
month[]={"Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct","Nov","Dec"};
                  int s=Integer.parseInt(ss);
                  int m=Integer.parseInt(mm);
                  String zs="",zm="";
                  if(s<10)
                        zs="0";
                  if(m<10)
                        zm="0";
                  try
                  {
                        if(source.getLabel() == "Time")
                        {
                              txt.append(hh+":"+zm+mm+":"+zs+ss);
                              Thread.sleep(1000);
                        }
                        else if(source.getLabel() == "Date")
                        {
                              txt.append("The date is:
```
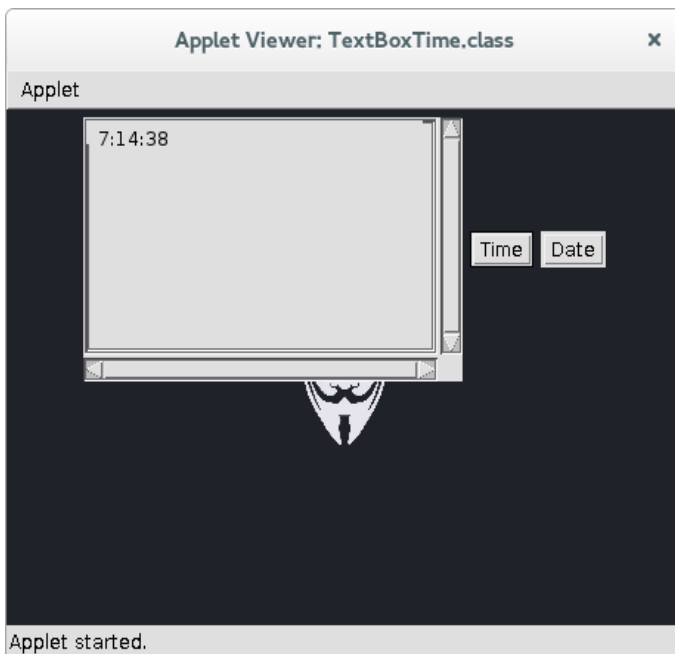
```java
"+dd+"-"+month[c.get(Calendar.MONTH)]+"-"+String.valueOf(c.get(Calendar.YEAR)));
                                Thread.sleep(5000);
                    }
            }
            catch(Exception e)
            {}
        }
    }
    @Override
    public void actionPerformed(ActionEvent e)
    {
            source = (Button)e.getSource();//tells us which button is being clicked
            if(source.getLabel() == "Time")
            {
                    t=new Thread(this);
                    t.start();
            }
            else if(source.getLabel() == "Date")
            {
                    t=new Thread(this);
                    t.start();
            }
    }
    public void paint(Graphics g)
    {
            g.drawImage(backGround, 0, 0,(int)getBounds().getWidth(),
(int)getBounds().getHeight(), this);
    }
}
```
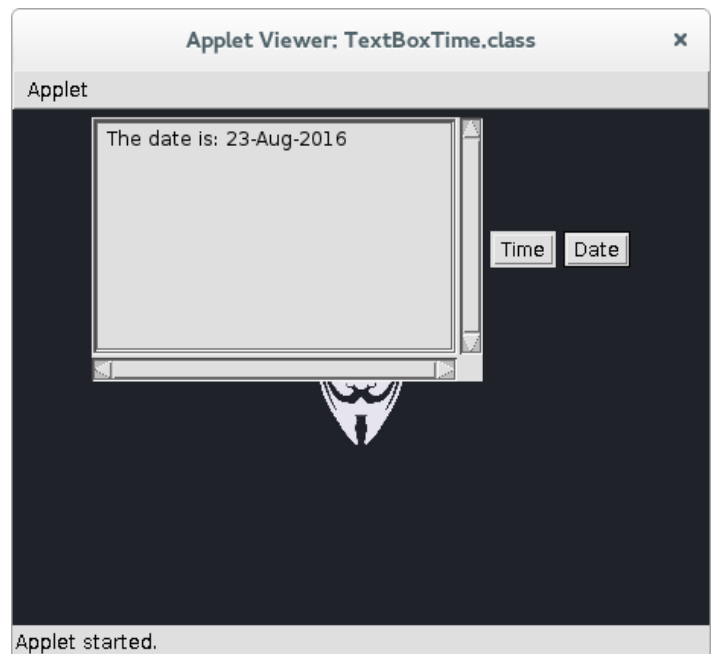
OUTPUT:

Applet Showing the Time   Applet showing the Date