

```
public class Chronometer
{
    //Le temps écoulé en dixièmes de secondes écoulées
    private int time;

    public Chronometer()
    {
        reset();
    }

    public void reset()
    {
        time = 0;
    }

    public void nextTick()
    {
        time++;
    }

    public int getTime()
    {
        return time;
    }

    public int getTenthsOfSeconds()
    {
        return time % 10;
    }

    public int getSeconds()
    {
        return (time / 10) % 60;
    }

    public int getMinutes()
    {
        return (time / 600) % 60;
    }

    public int getHours()
    {
        return (time / 36000);
        // rajouter %24 si on les heures d'une journée et séparer les jours
    }

    public String toString()
    {
        return getHours() + " hours, " + getMinutes() + " minutes, " + getSeconds() + " seconds, " + getTenthsOfSeconds() + "/10 seconds";
    }
}
```

```

import javax.swing.Timer;
public class MainFrame extends javax.swing.JFrame
{
    private Timer timer = null;
    private Chronometer chrono = new Chronometer();

    public MainFrame()
    {
        initComponents();
        timer = new Timer(100, stepButton.getActionListeners()[0]);
        timer.stop();
        stepButton.setVisible(false);
        stopButton.setEnabled(false);
        resetButton.setEnabled(false);
        updateView();
    }

    public void updateView()
    {
        chronoLabel.setText(String.valueOf(chrono.getTime()));
        betterChronoLabel.setText(chrono.toString());
    }
}
// Skipped: ... initComponents { ... }
private void startButtonActionPerformed(java.awt.event.ActionEvent evt) {GEN-FIRST:event_startButtonActionPerformed
    timer.start();
    startButton.setEnabled(false);
    stopButton.setEnabled(true);
    resetButton.setEnabled(true);
} //GEN-LAST:event_startButtonActionPerformed

private void stopButtonActionPerformed(java.awt.event.ActionEvent evt) {GEN-FIRST:event_stopButtonActionPerformed
    timer.stop();
    startButton.setEnabled(true);
    stopButton.setEnabled(false);
} //GEN-LAST:event_stopButtonActionPerformed

private void resetButtonActionPerformed(java.awt.event.ActionEvent evt) {GEN-FIRST:event_resetButtonActionPerformed
    timer.stop();
    chrono.reset();
    startButton.setEnabled(true);
    stopButton.setEnabled(false);
    resetButton.setEnabled(false);
    updateView();
} //GEN-LAST:event_resetButtonActionPerformed

private void stepButtonActionPerformed(java.awt.event.ActionEvent evt) {GEN-FIRST:event_stepButtonActionPerformed
    chrono.nextTick();
    updateView();
} //GEN-LAST:event_stepButtonActionPerformed
// Skipped: ... Look & Feel
// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JLabel betterChronoLabel;
private javax.swing.JLabel chronoLabel;
private javax.swing.JButton resetButton;
private javax.swing.JButton startButton;
private javax.swing.JButton stepButton;
private javax.swing.JButton stopButton;
// End of variables declaration//GEN-END:variables
}

```