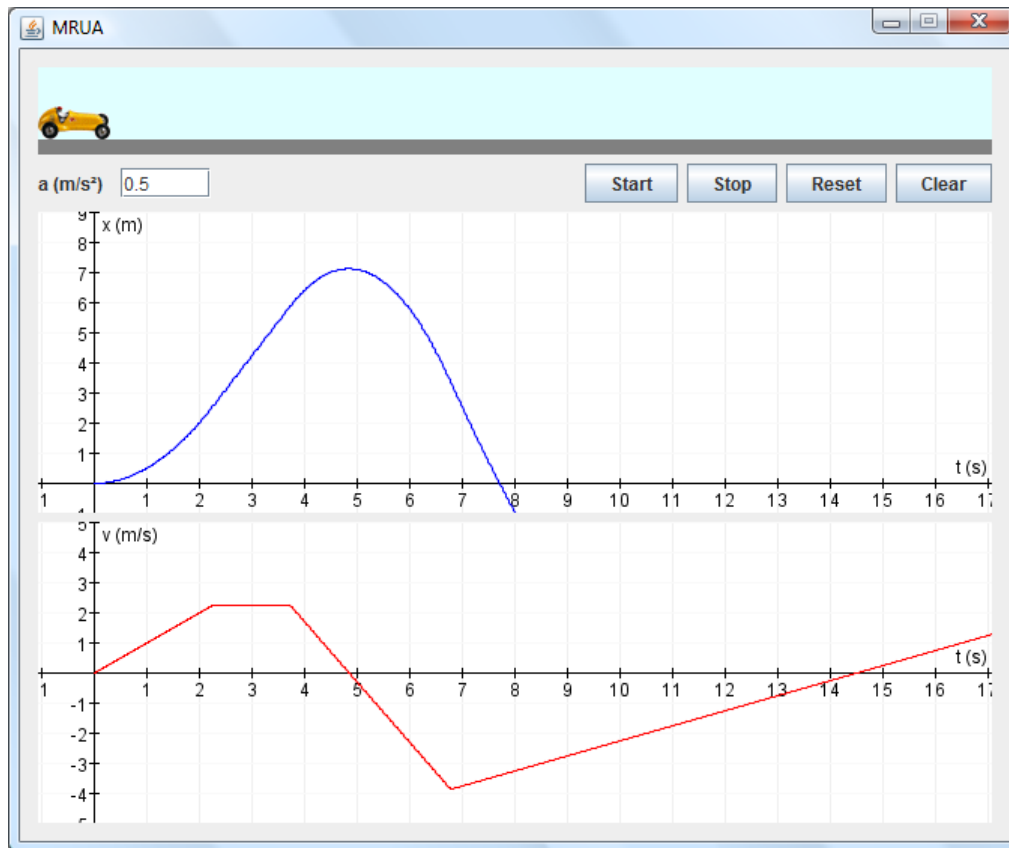
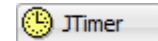


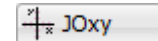
MRUA (Moto Rettilineo Uniformemente Accelerato)



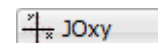
```
setTitle("MRUA");
setLocationByPlatform(true);
setResizable(false);
```



```
jTimer.setInterval(20);
```



```
Width = 600
Height = Default
jOxt.setAntialiasing(true);
jOxt.setXCenter(8);
jOxt.setXName("t (s)");
jOxt.setXScale(35);
jOxt.setYCenter(4);
jOxt.setYName("x (m)");
jOxt.setYScale(20);
```



```
Width = 600
Height = Default
jOvt.setAntialiasing(true);
jOvt.setXCenter(8);
jOvt.setXName("t (s)");
jOvt.setXScale(35);
jOvt.setYName("v (m/s)");
jOvt.setYScale(20);
```

- Nel listato subito dopo [Generated Code](#) inserire la dichiarazione delle 3 variabili globali:

```
double x = 0, v = 0, t = 0;
```

- Con il tasto destro del mouse associare ai vari componenti i gestori di evento seguenti con Event > Action > ActionPerformed:

```
private void jTimerActionPerformed(java.awt.event.ActionEvent evt) {
    double dt = (double)jTimer.getInterval()/1000;
    double a = Double.parseDouble(jTextFieldA.getText());
    v = v + a*dt;
    x = x + v*dt;
    t = t + dt;
    jLabelCar.setLocation((int)(x*100), 0);
    jOxt.setColor(Color.blue); jOxt.lineTo(t, x);
    jOvt.setColor(Color.red); jOvt.lineTo(t, v);
}

private void jButtonClearActionPerformed(java.awt.event.ActionEvent evt) {
    x = 0; v = 0; t = 0;
    jLabelCar.setLocation(0, 0);
    jOxt.clear(); jOvt.clear();
}

private void jButtonResetActionPerformed(java.awt.event.ActionEvent evt) {
    x = 0; v = 0; t = 0;
    jLabelCar.setLocation(0, 0);
    jOxt.MoveTo(0, 0); jOvt.MoveTo(0, 0);
}

private void jButtonStopActionPerformed(java.awt.event.ActionEvent evt) {
    jTimer.stop();
}

private void jButtonStartActionPerformed(java.awt.event.ActionEvent evt) {
    jTimer.start();
}
```