Program Design – PP10.25

## Input

1. In detail indicate what the inputs to this program are?

There are no inputs to this program.

1. How do you validate the input

N/A

1. Pseudocode: Briefly explain how this section will look like

N/A

## Processing

1. What is this program calculating?

It is constantly calculating position of the two cars that it displays.

1. Can we divide the calculations to the smaller “modules”

Yes we could do it but there is no point in doing so.

1. Pseudocode: Briefly explain how this section will look like – Each module should have its own section.

There is roughly only one module that controls drawing and position. In which all positions are controlled by the translate method.

## Output

1. What will this program display to the users?

The program will display two cars slowly moving past each other and not colliding.

1. What kind of formatting this output will use (Currency with $ …)?

There is no formatting in this output

1. Pseudocode: Briefly explain how this section will look like

N/A

## Library

What Libraries do you need for this program?

import java.awt.Color;

import java.awt.Graphics2D;

import java.awt.Rectangle;

import java.awt.geom.Ellipse2D;

import java.awt.geom.Line2D;

import java.awt.geom.Point2D;

import javax.swing.JComponent;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.JFrame;

import javax.swing.Timer;

## Initialization and constant variables

1. What variables need to be initialized?

X and y coordinates in int of the car object – Car.java

2 car objects – CarComponent.java

Frame Width and Height – MovingCars.java

1. What variables need to be defined as constant

private static final int ***FRAME\_WIDTH*** = 300;

private static final int ***FRAME\_HEIGHT*** = 400;