



User Interfaces

SOFE 4850U

Lab 2

This lab uses processing IDE

Task objective: To learn the use of processing and to check its capabilities. This lab covers the use of shapes in processing, the use of object-oriented programming and the modularity of code in processing.

Group/Individual submission: Group Submission

Task Introduction:

Open a new processing sketches and complete following tasks:

1. Create a road with lane lines as shown in the attached screenshots.
2. Create a class with method that can draw a car of random color and at random position on road (in single lane).
3. Move/Drive the car on road – animation.
4. Once car reaches to the end of road than it should again start from the starting point of road.

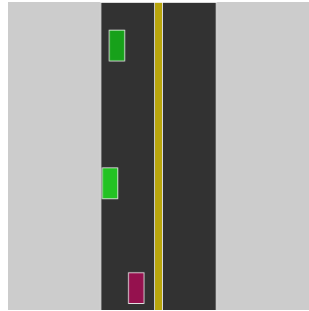
Bonus Tasks:

1. Draw cars randomly on both the side of lanes.
2. Move car on left sides to forward and right side on opposite side.
3. Cars should start again from initial point if reaches to the end.

Notes:

- Use saveFrame() function to take screenshots of your tutorial task.
- Create a class named Car(), which can display and move the car on road.
- Colors of road, lanes, background are not necessary to be same as shown in screenshot

Screenshot:



Lab total marks: 10

Submission: Submit your code in zip file and include screenshot/s of your output.

The code and/or report must be submitted through Canvas by **11:59pm on Tue, Sep 27th**