

ANUC1110-Introduction to Software Systems

Assignment 1- Semester 1 – 2018

Due date: 7:00pm, 03 April 2018

This assignment will count for 10% of the final grade. Below you will find the specifications.

Instructions:

- This assignment must be done in groups of two.
- Your report must include Assignment Cover Sheet providing the details of this assignment including student IDs. The report submission includes an email copy handed in to the teacher (2018).
- For the program, you are required to create your own works to your created GitLab repo for each task. The list of the tasks are in the Mark distributions section.
- Late submission of assessment tasks without an extension are penalised at the rate of 10% of the possible marks available per working day or part thereof. Late submission of assessment tasks is not accepted after 10 working days after the due date, or on or after the date specified in the course outline for the return of the assessment item.
- Plagiarism will attract academic penalties in accordance with the ANU guidelines.

Good luck and enjoy the time you will spend on this assignment

Assignment general specifications:

Shared riding deals with traffic congestion as well as reduces emissions. We expect you to develop travelling plans for passengers according to their start points, destinations and travelling time, i.e. if the passenger's route is covered by a driver's (for both x axis and y axis) and passenger's travelling time is in the period of the driver's, then he/she could send requirement to that driver. And maybe the passenger will meet other sharing-friend whose route and time is also covered by the drivers.

We provide two json files, saving passengers' information and drivers' information respectively. Passengers are recognised by user id, name, start point, destination, travelling time, while drivers are recognized by driver id, name, start point, destination, start time and end time. We have provided you with start code to show how to get data from json file. You should complete the code to read attributes information. (Hi

After saving the given information, input a user's information, output should contain: user's name, start point, destination, after searching for available driver (you can output anyone of them), decide whether there are other sharing friends with the passenger (assume the car can take all of them), then print result.

If there is no available driver, your console should look like:

```
Please enter user id:
12
Passenger's name: Jack
Start point: ANU
Destination: UCLodge
Travelling time: 2018/1/16 9:00

Sorry, there is no available driver right now.
```

If there is available driver, your console should look like:

```
Please input user id:
12
Passenger's name: Jack
Start at: ANU
Destination: UCLodge
Travelling tim

Available driv
Sharing friend: 34 67
```

Assignment Project Exam Help

<https://eduassistpro.github.io/>

Add WeChat edu_assist_pro

“2” is the driver id of the available driver. “34” and “67” are user id of sharing friends whose route and travelling time are also covered by the same driver.

comments. (2 marks)

- Contribute to your team works (if work in pairs). (1 mark)
 1. Clearly demonstration of work load distribution and overall contribution in percentage
- Report quality (3 marks)

Assignment submissions:

Your submission needs to include the program via **GitLab** and a report that includes:

- 1) Assignment Cover Sheet (available on the courses Wattle site).
- 2) The report that details your project including:
 - a) Structure of your project and its classes.
 - b) Report of how each part of your project has been done. For example, how to determine the sender etc.
 - c) Screenshots of the program running and the function fix.

The report is required to be submitted on **Monday (7:00pm, 3 April 2018)** and a hard copy of it needs to be submitted to the teacher on the due date in the classroom. One report per group.

Note: Failed to submit the report (either the electronic or hard copy) will apply 5 mark deduction out of your possible assignment result.

- 3) If you have used external resources for your assignment, you have to cite the source in both GUI and your report.