

The Open University of Sri Lanka
Bachelor of Software Engineering,
EEL3372/EEX3372 - Programing with Python



Due Date : 07/06/2022, Fri (OpenLearn submissions only)

No extension will be given. Late submissions are awarded 0 marks.

Task 01 : Python Program

Using python programming language, design and implement a program for a cab service. The requirements as follows.

Cab service has 5 types of vehicles. Cars, Vans, 3 Wheelers, Lorries. Trucks.

Details of each vehicle as follows.

Car:
maximum number of passengers - 3 and 4
AC/ Non AC

Van:
Maximum number of passengers - 6 and 8
AC/ Non AC

3 Wheelers:
Maximum number of passengers - 3

Trucks:
Size – 7 ft and 12 ft

Lorry:
Max load and size - 2500kg and 3500kg

Customer can be able to choose a vehicle according to his/ her requirements. Vehicles should be in a queue and the next available vehicle must be given, which matches the customer requirements.

Following features have to be in the program,

- Add a new vehicle to the system
- Remove a vehicle from the system
- Assign a job (hire)
- Release form assigned job (hire) after completing
- See available vehicles in each category

Complied python source code for the system, which is described above

Task 02 : Documentation (Presentation for Viva)

The documentation should describe your implementation covering the following areas.

- Introduction
- Flowchart of the program
- Source code
- Conclusion

Plagiarism and Collusion may result in 0 marks being awarded.