**Instructions to candidates**

* The online coding test will be of 1.5 hr
* Candidates needs to share the screen and video during the test.
* The recording of the session will be done from Legato (HR)
* Language to be used is only Python
* Once the test is completed share the .py file over the same email.
* Candidates can explain the code and their logic using voice recording in the phone or over the webex recording.
* Use any Python IDE for the coding test (Jupyter notebook, Pycharm, VS)
* Any online Content from internet should not be used during the online coding test.
* Candidate should acknowledge that they have read the above instructions and have agreed for the above conditions.

**Question:**

Design a parking lot using Python with TDD approach

Create your unit test cases for the code.

**Description**

Design a basic parking lot in Python. It creates parking lot with given number of slots. The cars follow Greedy approach while being parked in the slots.

Script should defines the following functions -

1. Given n number of slots, create a parking lot
2. Parks a vehicle with given registration number and color in the nearest empty slot possible. If there are no more empty slots available, it shows a message "Sorry, parking lot is full".
3. Prints the slot number, registration number and color of the parked vehicles.
4. Removes vehicle from slot number
5. There are few query functions to retrieve slot number from registration number of car, get registration numbers of cars with particular color etc.