Project GitHub URL : #https://github.com/dtsairi/gm_david_tsairi_v1

The project aim to run the following use cases:

1. State Parking : RVC OFF + Display at default mode
2. State Parking2Drive : RVC OFF + Display at default mode
3. State Parking2Reverse : RVC ON + Display at RVC mode
4. State Drive2Reverse : RVC ON + Display at RVC mode
5. Parking-->Drive-->Reverse-->Drive : RVC OFF + Display set to Previous mode [Info/Radio/Navigate], Previous Mode to be randomize
6. Parking-->Drive-->Reverse-->Parking : RVC OFF + Display set to Previous mode [Info/Radio/Navigate], Previous Mode to be randomize
7. Change into different Wheel angle and compare to vcu guidelines calc angle, add Wheel angle as variation, Gear Park--> Reverse, Camera enabled.
8. Check rvc output is matching Display output, compare RVC, Display Vs. Predefined Images , for instance: R.G.B (3 images), Ref_image abs path, can be added as variation
9. Check camera disable\enable
10. Check camera disable\enable with cycles, each cycle the previous state will be randomize

Assumptions:

- Gear state can shift to any desired state out of the following 3 options :Parking\Drive\Reverse
- If Camera has been disabled then when moving into Reverse gear, the display will stay with current mode and will not change to stream the camera image.
- Camera has a night mode which is activated by light sensor.
- Display screen support following possible screens: Info/Navigate/Radio/RVC (rear camera)

Instructions:

- The main file to run is **gm_Runner.py**, so it can run from command line without additional arguments.
- The default case will run all use cases serially (in order to run each case by itself, it can be done by comments out the irrelevant cases, that function wasn't added yet.
- Each test located in separated files which start with gm_test_XXX which include a test_package() to allow different test variations.