This is a configuration to a code for SUMO simulation using Traci.

Shortcut from def means function in python.

What can we configurate in Python code:

Class Trips:

1. List autos []
   - We can define which transport can our person use.
2. def __init__
   - Are our person going to have a vehicle. Line 42. Then we can also decide if our person would have another vehicles Also our person could be without transport.
3. def create_trips
   - We can also decide how much time will our stops last.
4. def pedestrian_retrieval
   - We can change id for transport in our database.
   - We can also choose which data we want to save in database for persons information.
5. def autos_retrieval
   - We can also choose which data we want to save in database for persons transport.
6. def delete_all
   - We can decide which data we want to delete from Database in our last simulation.

Class Human and his subclasses:

7. def __init__
   - We can change People personal information like name his home, work, university, school, park, friends, place, his age and salary, pocket money, scholarship.

def main:

8. We can define how much people we want via changing quantity value.
9. We can also define how much there would be Workers, Student, Pupils and Seniors via changing values in if statements.
10. We can define quantity of Trips for every person in simulation via changing quantityTrips value.
11. We can set the simulation time in last while statement.

For our simulation to be as close as possible to reality it should have a lot of transport, but for example simulation for 10 people have a really empty roads. Sollution for that is to create a little bit of traffic without users, just to make

simulation look better. File with name trips.trips.xml was made using randomTrips.py and in file there are 50 'Flows' by changing values of x in line period='x' quantity of autos changes as well. Period means that every x seconds car will start one trip. So if simulation was bigger, for example with 500 persons, there is no need in so much of autos.