

# Python OOP Lab

Q1 Create a Vehicle class with name, max\_speed and mileage instance attributes.

Q2 Create a child class Bus that will inherit all of the attributes and methods of the Vehicle class.

Q3 Add a function seating\_capacity to the vehicle class that takes as an argument the capacity of the vehicle and returns the following formatted string "The seating capacity of a {<vehicle\_name>} is {capacity} passengers"

Q4 override the function `seating_capacity` in the `Bus` class to give the capacity argument a default value of 50.

Q5 Add an instance variable to the `Bus` class called `capacity` and give it a default value of 50.

Q6 Create a function `fare()` in the `Bus` class that calculates the renting fare of the bus per day according to the following equation.  $\text{Fare} = \text{capacity} * 100$