

OOP Exercise 2

1-

A – Create class Vehicle which contains:

- Vehicle model string
- Registration number string
- Vehicle speed (km/hour) integer
- Fuel capacity (liters) double
- Fuel consumption (liter/km) double
- Parameterized constructor that will initialize all the data members with the given values.
- fuelNeeded() method that will take distance then calculate the amount of fuel needed
- A method distanceCovered() that will take time (in hours) as an argument. It will calculate the distance for the given time
- A display() method that will display all the information of a vehicle.

B - Create Class Truck which will inherit from Vehicle:

- Cargo weight limit (Kilo grams)// data member
- Parameterized constructor
- Setter and getter
- A display() method which will call parent display() then print Cargo weight value.

C - Create Class Bus which will inherit from Vehicle:

- Data members: Num of passengers int
- Parameterized constructor
- Setter and getter
- A display() method which will call parent display() then print number of passengers.

2-

What is the Difference between composition vs inheritance with example by code