SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT
COMPUTER SCIENCE AND ENGINEERING
DEPARTMENT B. Tech-1st Year
(Even Semester- 2023-2024)
Subject – Web Programming (CS104)
Python Lab Assignment 14 – Inheritance and Polymorphism

1. Write a python programs that illustrate how the following forms of inheritance are supported:
    a. Single inheritance
    b. Multiple inheritance
    c. Multilevel inheritance
    d. Hierarchical inheritance
2. Write a python program calculates the percentage of a student using multilevel inheritance.
    a. (Enter Marks for 5 Subjects: Maths:--, Chem:--, Phy:--, WP:--, DS:--, b. Percentage of a student : —)
3. Write a Python program to create a class Vehicle, Twowheeler and Fourwheeler. Then, derive classes Car and Scooter from it to illustrate the multiple inheritance.
4. Write a python program to illustrate polymorphism using this example.
    1. Details: Car x1 Red 20000
        Car max speed is 240
        Car change 7 gear

    2. Details: Truck x1 white 75000
        Vehicle max speed is 150
        Vehicle change 6 gear
5. Write a python program to create two classes CAT and DOG . They share a similar structure and have the same method names Info() and Make_sound().