Lab 28

Self Practice Solution: write a program implementing Abstract Classes

Task: Create an abstract class Vehicle that defines abstract methods for **start()** and **stop()**. We then create concrete subclasses (Car and Motorcycle) that extend the abstract class and provide specific implementations for these methods.

abstract class Vehicle {

abstract void start();

abstract void stop();

}

class Car extends Vehicle {

@Override

void start() {

System.out.println("Car started.");

}

@Override

void stop() {

System.out.println("Car stopped.");

}

}

class Motorcycle extends Vehicle {

@Override

void start() {

System.out.println("Motorcycle started.");

}

@Override

void stop() {

System.out.println("Motorcycle stopped.");

}

}

public class VehicleDemo {

public static void main(String[] args) {

Car car = new Car();

Motorcycle motorcycle = new Motorcycle();

car.start();

car.stop();

motorcycle.start();

motorcycle.stop();

}

}