Phase-1

1.5 Access Modifiers

Program:

package access\_modifiers;

public class Car {

//Static variable

public static String *company* = "Tata";

//Private variables

private int carUnlockPassword;

//public variables

public int AccelerateSpeedTo;

public String modelName;

Car(int carUnlockPassword, int AccelerateSpeedTo, String modelName){

this.carUnlockPassword = carUnlockPassword;

this.AccelerateSpeedTo = AccelerateSpeedTo;

this.modelName = modelName;

autheticateDriver(this.carUnlockPassword);

}

public void getSpeed() {

System.***out***.println(this.AccelerateSpeedTo);

}

public void getModelName() {

System.***out***.println("Car is running at "+this.modelName+"km/hr");

}

private void autheticateDriver(int carUnlockPassword) {

if (carUnlockPassword == this.carUnlockPassword) {

System.***out***.println("Car driver authenticated \nCar started");

}

}

}

//Main class

package access\_modifiers;

import java.util.Scanner;

public class MainClass {

public static void main(String[] args) {

//Scanner

Scanner sc = new Scanner(System.***in***);

//instantiating car object

System.***out***.print("Enter the password to start the car: ");

int password = sc.nextInt();

System.***out***.print("How much you want to accelerate: ");

int speed = sc.nextInt();

Car car1 = new Car(password, speed, "Nexon");

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car1.getModelName();

//accessing carUnlockPassword cannot be accessed because of private access specifier

//below code will throw error

// car1.carUnlockPassword;

}

}