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**Problem Statement –**

Create Separate Engine, Tyre, and Door Class. Create a Cars class using these classes.

And show functionality of each component in the car.

**Program –**

import java.util.Scanner;

interface Engine{

String engineName="DTSI";

void engineType();

void engineType(String s);

}

interface Tyre{

String tyreCompany="MRF";

void numberOfTyres();

void numberOfTyres(int x);

}

interface Door{

void doorStatus();

void doorStatus(String s);

}

public class Cars implements Engine,Tyre,Door{

public void engineType(String s){

System.out.println("Engine name is "+engineName);

System.out.println("Engine type is : " + s);

}

public void engineType(){

System.out.println("Engine name is "+engineName);

System.out.println("Engine type is 4 stroke engine");

}

public void numberOfTyres(int x){

System.out.println("Tyre company is : "+ tyreCompany);

System.out.println("Number of tyres are : " + x);

}

public void numberOfTyres(){

System.out.println("Tyre company is : "+ tyreCompany);

System.out.println("Number of tyres are 4");

}

public void doorStatus(String s){

System.out.println("Door is " + s);

}

public void doorStatus(){

System.out.println("Door is open");

}

public static void main(String[]args){

Scanner sc = new Scanner(System.in);

Cars c1=new Cars();

System.out.println("Choose \n1.for default Details of car\n2.for taking Details from user\n");

System.out.print("Enter choice : ");

int choice=sc.nextInt();

if(choice==2) {

sc.nextLine();

System.out.println("Enter Type of Engine (2 stroke or 4 stroke)");

String s = sc.nextLine();

System.out.println("Enter Number of tyres ");

int x = sc.nextInt();

System.out.println("Enter the status of door(open or close)");

String y = sc.next();

System.out.println("Car Details are....");

c1.engineType(s);

System.out.println();

c1.numberOfTyres(x);

System.out.println();

c1.doorStatus(y);

}

else if(choice==1){

System.out.println("Car Details are....");

c1.engineType();

System.out.println();

c1.numberOfTyres();

System.out.println();

c1.doorStatus();

}

else{

System.out.println("Invalid Choice");

}

}

}

**Output –**

