Java Assignment

Program for Car object:

1.Program:

```java
public class Vehicle {
String name;
String color;
String number_plate;
String brand;
int cost;
int speed;
int wheels;
String fuel;
String type;
int airbags;
public Vehicle(String name, String color, String number_plate,
String brand, int cost, int speed, int wheels,
        String fuel, String type, int airbags) {
    super();
    this.name = name;
    this.color = color;
    this.number_plate = number_plate;
    this.brand = brand;
    this.cost = cost;
    this.speed = speed;
    this.wheels = wheels;
    this.fuel = fuel;
    this.type =type;
    this.airbags = airbags;
}
void start()
{
    System.out.println(color+" "+brand+" "+name+" "+"of
cost"+" "+cost+" "+"is starting.");
}
void turn_left()
{
    System.out.println(name+" "+"is turning left");
}
void stop()
{
    System.out.println("A"+" "+name+" "+"which is moving with
a speed of "+speed+" "+"km/hr"+" "+"is stopped.");
}
void turn_right()
{
```

```java
        System.out.println(color+" "+name+" "+"is turning right.");
    }
}
import java.util.Scanner;
public class VehicleApp {
public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("enter name of the vehicle:");
        String name=scan.nextLine();
        System.out.println("enter color:");
        String color=scan.nextLine();
        System.out.println("enter number_plate:");
        String number_plate=scan.nextLine();
        System.out.println("enter brand:");
        String brand=scan.nextLine();
        System.out.println("enter cost:");
        int cost=scan.nextInt();
        System.out.println("enter speed:");
        int speed=scan.nextInt();
        System.out.println("number of wheels:");
        int wheels=scan.nextInt();
        System.out.println("enter type of fuel used:");
        String fuel=scan.next();
        System.out.println("enter the vehicle type:");
        String type=scan.next();
        System.out.println("number of air bags:");
        int airbags=scan.nextInt();
        Vehicle v=new
Vehicle(name,color,number_plate,brand,cost,speed,wheels,fuel,
 type,airbags);
        v.start();
        v.turn_left();
        v.stop();
        v.turn_right();
System.out.println(v.name+" "+v.color+" "+v.number_plate+"
"+v.brand+" "+v.cost+" "+v.speed+" "+v.wheels+" "+v.fuel+"
"+v.type+" "+v.airbags);
    }
}
```

1.Output:

```
enter name of the vehicle:
car
enter color:
white
enter number_plate:
AP123456
enter brand:
swift
enter cost:
70000
enter speed:
75
number of wheels:
4
enter type of fuel used:
diesel
enter the vehicle type:
sports
number of air bags:
3
white swift car of cost 70000 is starting.
car is turning left
A car which is moving with a speed of 75 km/hr is stopped.
white car is turning right.
car white AP123456 swift 70000 75 4 diesel sports 3
```

2.Program for Pen Object:

2.Program:

```java
public class Pen {
    String inkcolour;
    int cost;
    String brand;
    String width;
    String endcap;
    String pentype;
    String nibtype;
    int height;
    String portable;
    String grip;

    public Pen(String inkcolour, int cost, String brand, String
width, String endcap, String pentype, String nibtype,
            int height, String portable, String grip) {
        super();
        this.inkcolour = inkcolour;
        this.cost = cost;
        this.brand = brand;
        this.width = width;
        this.endcap = endcap;
        this.pentype = pentype;
        this.nibtype = nibtype;
        this.height = height;
        this.portable = portable;
        this.grip = grip;
    }
    void writing()
    {
    System.out.println("Iam writing by using a"+" "+inkcolour+"
"+"pen.");
    }
    void as_a_bookmark()
    {
        System.out.println("my pen is"+" "+pentype+" "+"pen"+"
"+"and it is"+" "+portable);
    }
}
```

```java
import java.util.Scanner;
public class PenApp {
public static void main(String[] args) {
    Scanner scan=new Scanner(System.in);
    System.out.println("enter inkcolour");
    String inkcolour=scan.nextLine();
    System.out.println("enter cost");
    int cost=scan.nextInt();
    System.out.println("enter brand:");
    String brand=scan.next();
    scan.nextLine();
    System.out.println("enter width:");
    String width=scan.nextLine();
    System.out.println("enter Endcap:");
    String endcap=scan.nextLine();
    System.out.println("enter type of the pen");
    String pentype=scan.nextLine();
    System.out.println("enter type of nib:");
    String nibtype=scan.nextLine();
    System.out.println("enter height in inches:");
    int height=scan.nextInt();
    scan.nextLine();
    System.out.println("enter  if it is portable:");
    String portable=scan.nextLine();
    System.out.println("enter type of grip:");
    String grip=scan.nextLine();
    Pen p=new
Pen(inkcolour,cost,brand,width,endcap,pentype,nibtype,height,p
ortable,grip);
    p.writing();
    p.as_a_bookmark();
    System.out.println(p.inkcolour+" "+p.cost+" "+p.brand+"
"+p.width+" "+p.endcap+" "+p.pentype+" "+p.nibtype+"
"+p.height+" "+p.portable+" "+p.grip);
}


}
```

2.Output:

```
enter inkcolour
blue
enter cost
20
enter brand:
renold
enter width:
2mm
enter Endcap:
round
enter type of the pen
ballpoint
enter type of nib:
thick
enter height in inches:
5
enter  if it is portable:
easy to carry
enter type of grip:
slippery
Iam writing by using a blue pen.
my pen is ballpoint pen and it is easy to carry
blue 20 renold 2mm round ballpoint thick 5 easy to carry
slippery
```