import java.util.Scanner;

abstract class Car\_Factory{

String compnay,car\_name;

double budget;

abstract void getprice(double price);

abstract void detail(String company\_name,String car\_name);

abstract void accessories();

void input() {

Scanner scan =new Scanner (System.in);

System.out.print("Company- ");

compnay=scan.next();

System.out.print("Car- ");

car\_name=scan.next();

System.out.print("Rough Budget(in Lakhs)- ");

budget=scan.nextDouble();

}

void display(Car\_Factory obj1) {

obj1.getprice(budget);

obj1.detail(compnay, car\_name);

obj1.accessories();

}

}

class Small\_car extends Car\_Factory{

String Ans;

public void getprice(double price) {

if(price>2&&price<5)

Ans="No";

else

Ans="Yes";

}

public void detail(String company\_name,String car\_name) {

System.out.println("Company- "+company\_name);

System.out.println("Name of Car- "+car\_name);

System.out.println("Color- Black/White/Orange/Red");

System.out.println("Fuel- Petrol");

System.out.println("Gears- Manual");

}

public void accessories() {

System.out.println("Types of Tyres- Alloy Wheels");

System.out.println("Airbags- "+Ans);

System.out.println("Back Wiper- "+Ans);

System.out.println("Side Mirror- Two");

System.out.println("Touch Screen Music Player- "+Ans);

}

}

class Sedan extends Car\_Factory{

String Ans;

public void getprice(double price) {

if(price>6&&price<10)

Ans="No";

else

Ans="Yes";

}

public void detail(String company\_name,String car\_name) {

System.out.println("Company- "+company\_name);

System.out.println("Name of Car- "+car\_name);

System.out.println("Color- Black/White/Orange/Red");

System.out.println("Fuel- Petrol/Diesel");

System.out.println("Gears- Auto/Manual");

}

public void accessories() {

System.out.println("Types of Tyres- Alloy Wheels");

System.out.println("Airbags- YES");

System.out.println("Back Wiper- YES");

System.out.println("Side Mirror- Two");

System.out.println("Touch Screen Music Player- YES");

System.out.println("Roof Window- "+Ans);

}

}

class Luxary extends Car\_Factory{

String Ans;

public void getprice(double price) {

if(price>10&&price<14)

Ans="No";

else

Ans="Yes";

}

public void detail(String company\_name,String car\_name) {

System.out.println("Company- "+company\_name);

System.out.println("Name of Car- "+car\_name);

System.out.println("Color- Black/White/Orange/Red");

System.out.println("Fuel- Diesel");

System.out.println("Gears- Auto");

}

public void accessories() {

System.out.println("Types of Tyres- Alloy Wheels");

System.out.println("Airbags- YES");

System.out.println("Back Wiper- YES");

System.out.println("Side Mirror- Two");

System.out.println("Touch Screen Music Player- YES");

System.out.println("Roof Window- YES");

System.out.println("Automotive Garbage Cans- "+Ans);

System.out.println("Automotice Air Freshner- "+Ans);

System.out.println("Button Start- "+Ans);

}

}

public class Main {

public static void main(String[] args) {

Scanner scan = new Scanner(System.in);

int ch;

Car\_Factory obj;

while(true){

System.out.println("Which Car you want to See?- ");

System.out.println("\n\t1.Small Car\n\t2.Sedan Car\n\t3.Luxary Car\n\t4.Exit");

ch=scan.nextInt();

System.out.println();

switch(ch) {

case 1:

obj= new Small\_car();

obj.input();

obj.display(obj);

break;

case 2:

obj= new Sedan();

obj.input();

obj.display(obj);

break;

case 3:

obj= new Luxary();

obj.input();

obj.display(obj);

break;

case 4:

return;

default:

System.out.println("INVALID CHOICE !!");

break;

}

}

}

}

Output:

Which Car you want to See?-

1.Small Car

2.Sedan Car

3.Luxary Car

4.Exit

1

Company- Suzuki

Car- Swift

Rough Budget(in Lakhs)- 8

Company- Suzuki

Name of Car- Swift

Color- Black/White/Orange/Red

Fuel- Petrol

Gears- Manual

Types of Tyres- Alloy Wheels

Airbags- Yes

Back Wiper- Yes

Side Mirror- Two

Touch Screen Music Player- Yes

Which Car you want to See?-

1.Small Car

2.Sedan Car

3.Luxary Car

4.Exit

2

Company- Hyundai

Car- Verna

Rough Budget(in Lakhs)- 14

Company- Hyundai

Name of Car- Verna

Color- Black/White/Orange/Red

Fuel- Petrol/Diesel

Gears- Auto/Manual

Types of Tyres- Alloy Wheels

Airbags- YES

Back Wiper- YES

Side Mirror- Two

Touch Screen Music Player- YES

Roof Window- Yes

Which Car you want to See?-

1.Small Car

2.Sedan Car

3.Luxary Car

4.Exit

3

Company- Lamborghini

Car- Urus

Rough Budget(in Lakhs)- 310

Company- Lamborghini

Name of Car- Urus

Color- Black/White/Orange/Red

Fuel- Diesel

Gears- Auto

Types of Tyres- Alloy Wheels

Airbags- YES

Back Wiper- YES

Side Mirror- Two

Touch Screen Music Player- YES

Roof Window- YES

Automotive Garbage Cans- Yes

Automotice Air Freshner- Yes

Button Start- Yes

Which Car you want to See?-

1.Small Car

2.Sedan Car

3.Luxary Car

4.Exit

4

Process finished with exit code 0