***bodlogo1)***

**package** bodlogo3;

**public** **class** Person {

**private** String name;

**private** Car myCar;

**public** Person() {

name = "";

myCar = **new** Car();

}

**public** Person(String name) {

**this**.name = name;

myCar = **new** Car();

}

**public** Person(String name, String model, String color, **int** year) {

**this**.name = name;

myCar = **new** Car(model, color, year);

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getCarModel() {

**return** myCar.getModel();

}

**public** **void** setCarModel(String model) {

myCar.setModel(model);

}

**public** String getCarColor() {

**return** myCar.getColor();

}

**public** **void** setCarColor(String color) {

myCar.setColor(color);

}

**public** **int** getCarYear() {

**return** myCar.getYear();

}

**public** **void** setCarYear(**int** year) {

myCar.setYear(year);

}

}

**package** bodlogo3;

**public** **class** Car {

**private** String model;

**private** String color;

**private** **int** year;

**public** Car() {

model = "";

color = "";

year = 0;

}

**public** Car(String model, String color, **int** year) {

**this**.model = model;

**this**.color = color;

**this**.year = year;

}

**public** String getModel() {

**return** model;

}

**public** **void** setModel(String model) {

**this**.model = model;

}

**public** String getColor() {

**return** color;

}

**public** **void** setColor(String color) {

**this**.color = color;

}

**public** **int** getYear() {

**return** year;

}

**public** **void** setYear(**int** year) {

**this**.year = year;

}

**public** **void** print() {

System.***out***.println("model:"+model+", color:"+color+", year:"+year);

}

**public** **void** state() {

**if**(2023-year>=10)

System.***out***.println("This car is old.");

**else** **if**(2023-year<10 && 2023-year>1)

System.***out***.println("This car is young.");

**else**

System.***out***.println("This car is new");

}

}

***bodlogo2)***

**package** bodlogo3;

**public** **class** Person {

**private** String name;

**private** Hobby hobby;

**public** Person() {

name = "";

hobby = **new** Hobby();

}

**public** Person(String name, **int** year, String type) {

**this**.name = name;

hobby = **new** Hobby(year, type);

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getHobbyYear() {

**return** hobby.getYear();

}

**public** **void** setHobbyYear(**int** year) {

hobby.setYear(year);

}

**public** String getHobbyType() {

**return** hobby.getType();

}

**public** **void** setHobbyType(String type) {

hobby.setType(type);

}

}

**package** bodlogo3;

**public** **class** Hobby {

**private** **int** year;

**private** String type;

**private** **static** String[] *types* = {"sport", "music", "sewing", "book", "traveling"};

**public** Hobby() {

year = 0;

type = "";

}

**public** Hobby(**int** year, String type) {

**is**.year = year;

**for**(**int** i = 0; i < 5; i++) {

**if**(type == *types*[i])

**this**.type = type;

}

}

**public** **int** getYear() {

**return** year;

}

**public** **void** setYear(**int** year) {

**this**.year = year;

}

**public** String getType() {

**return** type;

}

**public** **void** setType(String type) {

**for**(**int** i = 0; i < 5; i++) {

**if**(type == *types*[i])

**this**.type = type;

}

}

}

***Bodlogo3)***

Package bodlogo3

Public class Person {

private String name;

private Gift gifts[];

private static int giftNo = 0;

public Person() {

name = “”;

}

public Person(String name) {

this.name = name;

}

public void takeGift(String name, int price, String whose) {

gifts[giftNo] = new Gift(name, price, whose);

giftNo++;

}

public void seeGifts() {

for(int i = 0; i < giftNo; i++) {

gifts[i].print();

}

}

}

package bodlogo3

public class Gift {

private String name;

private int price;

private String forWho;

public Gift() {

name = “”;

price = 0;

forWho = “”;

}

public Gift(String name, int price, String type, String forWho) {

this.name = name;

this.price = price;

this.forWho = forWho;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getPrice() {

return price;

}

Public void setPrice(int price) {

this.price = price;

}

public String getForWho() {

return forWho;

}

Public void setForWho(String name) {

forWho = name;

}

Public void isCheap() {

If(price < 20000) {

System.out.println(“cheap”);

} else if(price < 50000) {

System.out.println(“normal”);

} else {

System.out.println(“expensive”);

}

}

Public void print() {

System.out.println(“name:”+name+”, price:”+price+”, whose:”+forWho);

}

}

***Bodlogo4)***

package bodlogo3

public class Staff {

}