ToyDemo:-(program)

**package** demo;

//TOY DEMO METHOD()

**public** **class** ToyDemo {

String getLeastPrice(Toy t, Toy t1, Toy t2, Toy t3, String category){

**if**(category.equals(t.getCategory())|| category.equals(t1.getCategory())|| category.equals(t2.getCategory())||category.equals(t3.getCategory()))

{

**if**((category.equals(t.getCategory()))&& (category.equals(t1.getCategory())))

{

**double** r=t.getPrice()-(t.getPrice()\*(t.getDiscount()/100));

**double** r1=t1.getPrice()-(t1.getPrice()\*(t1.getDiscount()/100));

**if**(r>r1) {

**return** t1.getName();

}

**else**

**return** t.getName();

}

**else** **if**((category.equals(t2.getCategory()))&& (category.equals(t3.getCategory()))) {

**double** r=t2.getPrice()-(t2.getPrice()\*(t2.getDiscount()/100));

**double** r1=t3.getPrice()-(t3.getPrice()\*(t3.getDiscount()/100));

**if**(r>r1) {

**return** t3.getName();

}

**else**

**return** t2.getName();

}

**else**

**return** " ";

}

**else**

**return** "no category found";

}

**public** **static** **void** main(String[] args) {

Toy t=**new** Toy("Apple","fruits",100.78,10);

Toy t1=**new** Toy("Grapes","fruits",90.67,5);

Toy t2=**new** Toy("Lion","Animal",60.56,6);

Toy t3=**new** Toy("Tiger","Animal",70.89,10);

ToyDemo td=**new** ToyDemo();

System.***out***.println(td.getLeastPrice(t,t1,t2,t3,"Animal"));

}

}

//TOY METHOD ()

**class** Toy{

**private** String name;

**private** String category;

**private** **double** price;

**private** **double** discount;

Toy(String name, String category, **double** price, **double** discount){

**this**.name=name;

**this**.category=category;

**this**.price=price;

**this**.discount=discount;

}

**public** **double** getPrice() {

**return** price;

}

**public** **void** setPrice(**double** price) {

**this**.price = price;

}

**public** **double** getDiscount() {

**return** discount;

}

**public** **void** setDiscount(**double** discount) {

**this**.discount = discount;

}

**public** String getName() {

**return** name;

}

**public** String getCategory() {

**return** category;

}

}

***OUTPUT:***

* lion

CAR DEMO:-

**package** demo;

**public** **class** CarDemo {

**public** **static** **void** main(String[] args) {

**char** p,c;

Car c1= **new** Car("Hyundai","Santro",4,400000);

Car c2= **new** Car("Suzuki","Baleno",5,500000);

Car c3= **new** Car("Nissan","Duster",5,80000000);

Car c4= **new** Car("Tayota","Innova",9,1300000);

System.***out***.println(*bestCar*(c1,c2,c3,c4,'p'));

}

**private** **static** String bestCar(Car c1, Car c2, Car c3, Car c4, **char** c) {

String res = **null**;

**if**(c == 'p') {

**if**(c1.getOnRoadPrice() > c2.getOnRoadPrice() && c1.getOnRoadPrice() > c3.getOnRoadPrice() &&c1.getOnRoadPrice() > c4.getOnRoadPrice() ) {

res = c1.make + "-" +c1.model;

}

**else** **if**(c2.getOnRoadPrice() > c1.getOnRoadPrice() && c2.getOnRoadPrice() > c3.getOnRoadPrice() &&c2.getOnRoadPrice() > c4.getOnRoadPrice() ) {

res = c2.make + "-" +c2.model;

}

**else** **if**(c3.getOnRoadPrice() > c1.getOnRoadPrice() && c3.getOnRoadPrice() > c2.getOnRoadPrice() &&c3.getOnRoadPrice() > c4.getOnRoadPrice() ) {

res= c3.make + "-" +c3.model;

}

**else** **if**(c4.getOnRoadPrice() > c1.getOnRoadPrice() && c4.getOnRoadPrice() > c2.getOnRoadPrice() &&c4.getOnRoadPrice() > c3.getOnRoadPrice() ) {

res= c4.make + "-" +c4.model;

}

}

**else** **if**(c == 'c') {

**if**(c1.getpassengerCapacity() > c2.getpassengerCapacity() && c1.getpassengerCapacity() > c3.getpassengerCapacity() &&c1.getpassengerCapacity() > c4.getpassengerCapacity() ) {

res = c1.make + "-" +c1.model;

}

**else** **if**(c2.getpassengerCapacity() > c1.getpassengerCapacity() && c2.getpassengerCapacity() > c3.getpassengerCapacity() &&c2.getpassengerCapacity() > c4.getpassengerCapacity() ) {

res = c2.make + "-" +c2.model;

}

**else** **if**(c3.getpassengerCapacity() > c1.getpassengerCapacity() && c3.getpassengerCapacity() > c2.getpassengerCapacity() &&c3.getpassengerCapacity() > c4.getpassengerCapacity() ) {

res= c3.make + "-" +c3.model;

}

**else** **if**(c4.getpassengerCapacity() > c1.getpassengerCapacity() && c4.getpassengerCapacity() > c2.getpassengerCapacity() &&c4.getpassengerCapacity() > c3.getpassengerCapacity() ) {

res= c4.make + "-" +c4.model;

}

}

**return** res;

}

}

**class** Car {

String make;

String model;

**int** passengerCapacity;

**double** onRoadPrice;

Car(String make,String model, **int** passengerCapacity,**double** onRoadPrice){

**this**.make = make;

**this**.model = model;

**this**.passengerCapacity = passengerCapacity;

**this**.onRoadPrice = onRoadPrice;

}

**int** getpassengerCapacity() {

**return** passengerCapacity;

}

**public** **void** setpassengerCapacity(**int** passengerCapacity) {

**this**.passengerCapacity = passengerCapacity;

}

**double** getOnRoadPrice() {

**return** onRoadPrice;

}

**public** **void** setonRoadPrice(**double** onRoadPrice){

**this**.onRoadPrice = onRoadPrice;

}

**public** String getmake() {

**return** make;

}

**public** String getmodel() {

**return** model;

}

}

OUTPUT:-

Nissan duster