Oop

hot shocolate system

main

```
//import 'package:flutter/material.dart';
import 'package:hotshproject/hotshoc.dart';

void main() {
   print('n');
   //object
   var object1 = hotshoclate();
   // object1.makeorder(1);
   object1.hotshlevel = 100;
   object1.waterLevel = 500;
   object1.makeorder(1);
   print(object1.hotshlevel);
}
```

Hotshoc class

```
class hotshoclate{
   List hotshsize=[7,9,8];
   double waterLevel=1000;
   double hotshlevel=4000;

void turnonoption(){
    print('option chosn');
}

void turnonoptioff(){
    print('option close');
}

bool iswaterenough(int hotshsize) {
    if (hotshsize==1&& waterLevel==500)
    {
        return true;
    }
    else{
        return false;)
}

bool ishotenough(int hotshsize) {
    if (hotshsize==1&& hotshlevel==10) {
        return true;
    }
    else{
        return true;
    }
    else{
        return true;
}

void warnhotshoclevellow() {
```

Constructor

in class

```
hotshoclate({List ?1, double ? h, double ?s}) {
   this.hotshsize=1!;
   this.waterLevel=h!;
   this.hotshlevel=s!;
}
```

in main

```
import 'package:hotshproject/hotshoc.dart';

void main() {
    print('n');
    //object
    List hotshsize=[1];
    //var object1 = hotshoclate( hotshsize, 100, 500);
    var object=hotshoclate(l:hotshsize, h:100, s: 500);
    // object1.makeorder(1);
    //object1.hotshlevel = 100;
    //object1.waterLevel = 500;
    //object1.makeorder(1);
    //print(object1.hotshlevel);
    print(object1.hotshlevel);
```

}

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Encapsulation

Put _before variable then use set, get to get it

Main

Hotschcclass

```
class hotshoclate{
   //encapsolation
   //private
   int numoption=2;
```

```
void turnonoptioff() {
void warnhotshoclevellow() {
void makeorder(int hotshsize)
  turnonoptioff();
```

train system

main

```
import 'package:untitledtr/retrain.dart';
import 'package:untitledtr/seat.dart';
import 'package:untitledtr/train.dart';

void main() {
    final List<Seat>b=[Seat(type: "rest",price: "50pound")];
    var n1=ReTrain(seats: b);
    n1.id="6";
    n1.seats=b;
    print(n1.id);
    //print(n1.seats);
    //call polymorph
Train bb= ReTrain(seats: b);
    bb.bookindvidual();
}
```

train

```
import 'package:untitledtr/seat.dart';
//parentclass
class Train{
   String ?id;
   List<Seat>seats;
   Train({this.id, required this.seats});

   void bookindvidual() {
      print('booked');
   }
   void bookdouble() {
      print('double booked');
}
```

Retrain

```
import 'package:untitledtr/seat.dart';
import 'package:untitledtr/train.dart';

class ReTrain extends Train{
   List <String> services=List.empty();
//constructor
   ReTrain({required List<Seat> seats}) : super(seats: seats);

//polymorrp>overide method

@override
   void bookindvidual(){
       print('booked from retrain');
   }

}
```

yo train

```
import 'package:untitledtr/seat.dart';
import 'package:untitledtr/train.dart';

class YoTrain extends Train{
   YoTrain({required List<Seat> seats}) : super(seats: seats);
}
```

seat

```
class Seat{
   String ?type;
   String ?price;
   Seat({this.type,this.price});
}
```