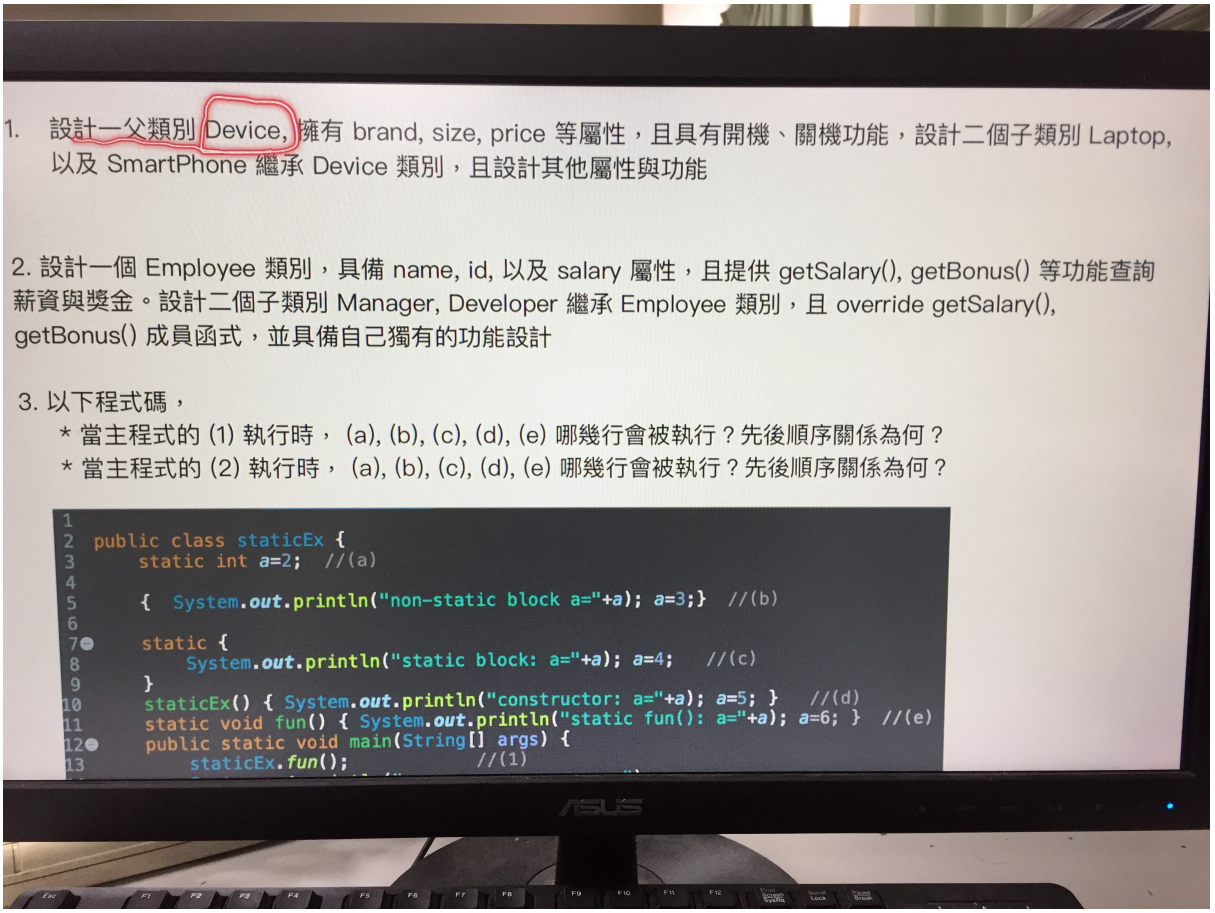
12/22當天



第一題:

```
/* 12/22 楊育哲
 * 實作第一題: 父類別繼承練習
 */
public class p1_1222 {
    public static void main(String args[]){
        Laptop A = new Laptop("HP", 10000, 11);
        Laptop C = new Laptop("A", 20000, 13);
        A.onBot(); C.onBot();
        A.info(); C.info();

        SmartPhone B = new SmartPhone("123546789", "apple", 1
        System.out.print("call test: "); B.call("987654321");
        B.offBot();
```

```
        System.out.print("call test: "); B.call("987654321");
    }
}
class Device{
    private String brand;
    private int size, price;
    private boolean state;
    Device(String name, int s, int p){state=false;brand=name;
    public void onBot(){state=true;}
    public void offBot(){state=false;}
    public boolean Bot(){return state;}
    public void info(){
        System.out.println("brand: "+brand);
        System.out.println("size: "+size);
        System.out.println("price: "+price);
    }
}
class Laptop extends Device{
    private static int power, voice;
    Laptop(String name, int s, int p){super(name, s, p); powe
    public void setVoice(int v){if(v>=0&&v<=100)voice=v;}
    public void checkPower(){System.out.println("power :"+pow
}
class SmartPhone extends Device{
    private static String number;
    SmartPhone(String no, String name, int s, int p){super(na
    public void call(String no){if(Bot())System.out.println("
}
```

brand: HP
size: 10000
price: 11
brand: A
size: 20000
price: 13
call test: call 987654321 from 123546789
call test: phone off.

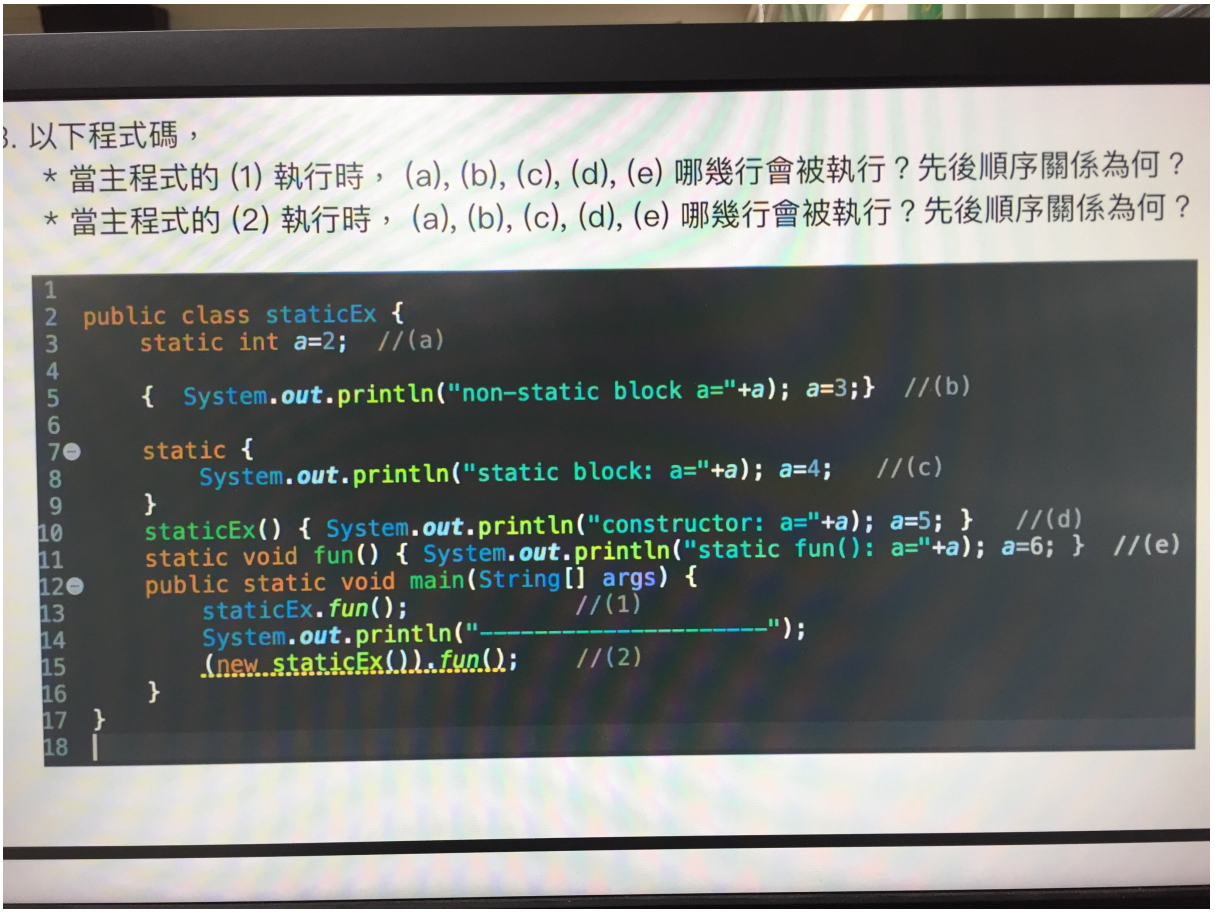
第二題:

```
/* 12/22 楊育哲
 * 實作第二題: 繼承練習2
 */
public class p2_1222 {
    public static void main(String args[]){
        Manager andy = new Manager("andy", 1, 10000);
        Developer cammy = new Developer("cammy", 2, 10000);
        System.out.println("developer's salary: "+cammy.getSa
        andy.adjustSalary(15000);
        System.out.println("after salary adjusted, developer'
        System.out.println("before cammy work overtime, she's
        cammy.overtime();
        System.out.println("after cammy work overtime once, s
    }
}
class Employee{
    private int id, salary;
    static int adjustedSalary;
    private String name;
    Employee(String n, int i, int s){name=n; id=i; salary=s;a
    Employee(){}
    static void setSalary(int s){adjustedSalary=s;}
    public int getSalary(){ salary=adjustedSalary; return sal
    public int getBouns(){return salary*3;}
}
class Manager extends  Employee{
    Manager(String n, int i, int s){super(n, i, s);}
    @Override
    public int getSalary(){ return super.getSalary()+10000; }
    @Override
    public int getBouns(){ return super.getBouns()*3; }
    public void adjustSalary(int s){setSalary(s);}
}
class Developer extends Employee{
    private float rate=2;
    Developer(String n, int i, int s){super(n, i, s);}
    @Override
    public int getSalary(){
```

```
        Employee check =  new Employee();
        if(check.getSalary()!=super.getSalary()) super.setSal
        return super.getSalary()+5000; }
    @Override
    public int getBouns(){ return (int)(super.getBouns()*rate
    public void overtime(){ rate+=0.1; }
}
```

輸出:

developer's salary: 15000
after salary adjusted, developer's salary: 20000
before cammy work overtime, she's bouns: 90000
after cammy work overtime once, she's bouns: 94499




```
/* 12/22 楊育哲
 * 實作上課範例: 先後順序探討
```

```
 */
public class StaticEx {
    static int a=2; //(a)

    { System.out.println("non-static block a="+a); a=3; } //(

    static{
        System.out.println("static block a="+a); a=4; //(c)
    }

    StaticEx(){ System.out.println("constructor: a="+a); a=5;

    static void fun(){ System.out.println("static fun(): a="+
    public static void main(String[] args){
        StaticEx.fun();  //(1)
        System.out.println("--------------------");
        (new StaticEx()).fun();  //(2)
    }
}
//(1): a -> c -> e, (2) [承接(1)] -> b -> d -> e
/*
static block a=2
static fun(): a=4
--------------------
non-static block a=6
constructor: a=3
static fun(): a=5
 */
```

輸出如註解所示。