

```
1 package javaassessment;
2
3 public class Phone {
4     int phoneId;
5     String os;
6     String brand;
7     int price;
8     public Phone(int phoneId, String os,String brand,int price) {
9         this.phoneId=phoneId;
10        this.os=os;
11        this.brand=brand;
12        this.price=price;
13    }
14    public int getphoneId(){
15        return phoneId;
16    }
17    public String getos() {
18        return os;
19    }
20    public String getbrand() {
21        return brand;
22    }
23    public int getprice() {
24        return price;
25    }
26    public void setphoneId(int phoneId) {
27        this.phoneId=phoneId;
28    }
29    public void setos(String os) {
30        this.os=os;
31    }
32    public void setbrand(String brand) {
33        this.brand=brand;
34    }
35    public void setprice(int price) {
36        this.price=price;
37    }
38 }
39
```

```

package javaassessment;
import java.util.Scanner;

public class devicemanagement {

    public static void main(String args[]) {
        Scanner sc=new Scanner(System.in);
        Phone[] phones=new Phone[4];
        for(int i=0;i<4;i++) {
            int phoneId=sc.nextInt();
            sc.nextLine();
            String os=sc.nextLine();
            String brand=sc.nextLine();
            int price=sc.nextInt();
            sc.nextLine();
            phones[i] =new Phone(phoneId,os,brand,price);
        }
        String searchBrand=sc.nextLine();
        String searchOs=sc.nextLine();
        sc.close();

        int priceForBrand= findPriceForGivenBrand(phones,searchBrand);
        if(priceForBrand>0) {
            System.out.println(priceForBrand);
        }
        else {
            System.out.println("The given Brand is not available");
        }

        Phone phone=getPhoneIdBasedOnOs(searchOs,phones);
        if(phone!=null) {
            System.out.println(phone.getphoneId());
        }
        else {
            System.out.println("No phones are available with specified os and price range");
        }
    }

    public static int findPriceForGivenBrand (Phone[] phones, String brand) {
        int sum=0;
        for(Phone phone:phones) {
            if(phone.getbrand().equalsIgnoreCase(brand)) {
                sum+=phone.getprice();
            }
        }
        return sum;
    }
}

```

```
public static int findPriceForGivenBrand (Phone[] phones, String brand) {  
    int sum=0;  
    for(Phone phone:phones) {  
        if(phone.getbrand().equalsIgnoreCase(brand)) {  
            sum+=phone.getprice();  
        }  
    }  
    return sum;  
}  
  
public static Phone getPhoneIdBasedOnOs(String os, Phone[] phones) {  
    for(Phone phone: phones) {  
        if (phone.getos().equalsIgnoreCase(os) && phone.getprice() >= 50000) {  
            return phone;  
        }  
    }  
    return null;  
}  
}
```

111

iOS

Apple

30000

222

android

Samsung

50000

333

Symbian

HTC

12000

444

Panandroid

HTC

89000

Blackberry

aNdROID

The given Brand is not available

222