

General instructions

Follow the method signature given in the instructions page
Don't change and make it your own

Abdul rehman raja

1) Update Product Price

2) Exit

1

Enter the Product Category :

Jdf (why ask hike rate if category does not exist)

Enter hike Rate :

-98

Enter hike Rate :

20

Product Name Price (why display below table)

facepack 100

sony 10000

samsung 23000

pears 70

facecream 60

lux 100

colgate 50

1) Update Product Price

2) Exit

```
        public boolean isCategoryValid(String category) throws ProductException
    {
        return true;
    }
```

Above is Wrong

Service layer

```
public int updateProducts(String Category,int hike) throws ProductException{
    pd.updateProducts(Category,hike);
    return 0;
}
```

```
public boolean isCategoryValid(String category) throws ProductException {

    return true; //just delegate to dao layer. Simple
}
```

@Test

```
int updateProducts(String Category,int hike) {
    int a =3;
    int b =3;
    assertEquals(a,b);
}
```

Whats the meaning of above test case ??

Main method

If prod category is wrong, why msg is not printed

Also, printed updated map ;right ;

This is the way to know whether output is right ? good

Program works only for right values

Abirami

```
public ProductService updateProducts(String Category, int hike) throws
ProductException {
    // TODO Auto-generated method stub
    daoobj.setProductDetails(productDetails);
    return null;
}

@Override
public Map<String, Integer> getProductDetails() {
    // TODO Auto-generated method stub

    return null;
}

public boolean isCategoryValid(String category) throws
ProductException {
    return false;
}
```

No logic written for update

Next two methods also empty almost

```
public boolean isCategoryValid(String category) throws ProductException {
    String productname= String.valueOf(category);
    boolean res=Pattern.matches("[a-z]{10}",productname);
    if(res==false)
        throw new ProductException(category);
    return false;
}
```

This method shld have logic of cheking value entered by user from the existing map.

Common sense was required here

```
@Test
public void Test() {
    HashMap hmobj=new HashMap();
    assert(hmobj instanceof HashMap);
}
```

Wrong test case

```
public class ProductService implements IProductService
{
    Scanner sc=new Scanner(System.in);
    ProductDAO daoobj;
    ProductService serviceobj=new ProductService();
```

Causes infinite loop ;

Cant execute code

```
    public int updateProducts(String Category, int hike) throws
ProductException {
    // TODO Auto-generated method stub
    serviceobj=daoobj.updateProducts(Category, hike);
    return 0;
```

wrong

```
public Map<String, Integer> getProductDetails() {
    // TODO Auto-generated method stub
    return null;
}

public boolean isCategoryValid(String category) throws ProductException
{
    String productname= String.valueOf(category);
    boolean res=Pattern.matches("[a-z]{10}",productname);
    if(res==false)
        throw new ProductException(category);
    return false;
}
```

Wrong. Chk against map

Alekhya

Service

```
    public int updateProducts(String Category,int hike) throws
ProductException{

    if(isCategoryValid(Category)) {
        productDetails.keySet();

        return 1;
    }
    else
        throw new ProductException();
}
```

Logic for updating not seen

```

public boolean isCategoryValid(String category) throws ProductException{
//      System.out.println(productDetails.containsValue(category));
    if(productDetails.containsValue(category))

        return true;
    else
        return false;
}

```

Also, throw exception from else section

```

public class ProductException extends Exception{
    public ProductException(){

    }

}

```

Line Super(msg) missing in above code

Service

```

public boolean isCategoryValid(String category) throws ProductException{
    return true;
}

```

Delegate to dao which is missing

Test case empty

Output

```

1) Update Product Price
2) Exit
1
Enter the Product Category :
hs
Enter hike Rate :
5
Product Name Price
facepack 100
sony 10000
samsung 23000
pears 70
facecream 60
lux 100
colgate 50
1) Update Product Price
2) Exit

```

For wrong category no exception is thrown

Why ask rate and other stories when category itself is not right

updated table not displayed

ankit dhyani

```
    public int updateProducts(String Category, int hike) throws
ProductException {
        salesDetails.put(client.getCategory(), client.getHike());
        return 0;
    }

    @Override
    public Map<String, Integer> getProductDetails() {
        // TODO Auto-generated method stub
        return null;
    }
}
```

does not seem to know what has to be done

wahts this

```
public int updateProducts(String Category,int hike) throws ProductException {
    try {

        }catch(Exception e) {
            System.out.println(e);
        }
        dao.updateProducts(Category, hike);
        return 0;
    }
}
```

```
public boolean isCategoryValid(String category) throws ProductException {

    if(category=="soap" || category=="paste" || category=="electronics" || catego
ry=="cosmatics") {
        return true;
    }else
        return false;
}
}
```

Cant hard code values like this ; search from map instead

Test case empty

1)Update Product Price

2)Exit

1

Enter the Product Category :

jsdf

Enter hike Rate :

7

Product Name Price

facepack 100

sony 10000

samsung 23000

pears 70

facecream 60

jsdf 7 (who asked u to add to existing map; u only had to update)

lux 100

```
colgate 50
1)Update Product Price
2)Exit
```

Wrong output

Bellamgiri prasad

```
    public int updateProducts(String Category,int hike) throws
ProductException;
```

```
        public Map<String,Integer> getProductDetails();
    }
```

Not written static block containing map code given in paper

```
public int updateProducts(String Category,int hike) throws ProductException;

    public Map<String,Integer> getProductDetails();
```

```
public boolean isProdHikeValid(int hrate) {
    if(hrate<=0)
        return false;
    else
        return true;
}
```

Compilation errors present in code

```
public void setMapTest() {
    HashMap map= new HashMap();
    List l = new ArrayList();
    assert(map instanceof HashMap);
}

}
```

Wrong test cse

Cant execute code

Cramya

```
public boolean isCategoryValid(String category) throws ProductException{
    boolean b=false;
    if(productDetails.containsKey(category))
    {
        b=true;
    }
    else {
        throw new ProductException("Category not found");
    }

    return b;
}
```

Abov is written well

```
if( productDetails.containsKey(Category)) {
    if(
productDetails.containsKey(Category)==salesDetails.containsKey(Category))
    for(int value: salesDetails.values())
    {
        int percentage=(value*hike)/100;
        System.out.println(" "+percentage);
    }
    else {
        throw new ProductException();
    }
}
```

Good

Service

```
public int updateProducts(String Category, int hike) throws ProductException
{

    daoobj.updateProducts(Category,hike);
    return 0;
}
```

why return 0

```
public Map<String, Integer> getProductDetails() {
    daoobj.getProductDetails();
    return null; why returning null
}

public boolean isCategoryValid(String category) throws ProductException {
```

```

        boolean hm=daoobj.isCategoryValid(category);

        return hm;
    }

```

Good

tEst case empty

1)Update Product Price
2)Exit

Enter your choice : 1
Enter the Product Category :
sdf

Category not found
[com.cg.productmgmt.exception.ProductException](#)
1)Update Product Price
2)Exit

Enter your choice : at
com.cg.productmgmt.dao.ProductDAO.isCategoryValid([ProductDAO.java:123](#))
at
com.cg.productmgmt.service.ProductService.isCategoryValid([ProductService.java:53](#))
at com.cg.productmgmt.ui.Client.main([Client.java:33](#))

give graceful msg . remove printstacktrace

program shld not exit; ask user to enter category again

why u r not showing updated map to user

how wil I know whether your logic is right or wrong ; u shld have thought about this

Gaganpreetkaur

```

    public boolean isCategoryValid(String category) throws ProductException
    {
        //method to validate the category
        if(productDetails.containsKey(category))
            return true;
        else
            throw new ProductException();
    }

```

gv message along with throwing excepton and catch this exception in main method

```

public int updateProducts(String Category, int hike) throws ProductException
{
    // TODO Auto-generated method stub
    try
    {
        //
        if(salesDetails.isEmpty())

```



```

//                                throw new ProductException();
                                if(!(salesDetails.containsKey(Category)))
//checking if the category exists in the records or not
                                throw new ProductException();
                                //if not throw user-defined exception
                                else
                                {
                                    int t = salesDetails.get(Category).intValue();
//retrieving price
                                    System.out.println(t);
                                    int amt = (int) (0.01*t*hike + 100);
                                //if id exists then calculate the hike rate
                                    salesDetails.replace(Category, t, amt);
                                    return amt;
                                }
                                }
                                catch(ProductException e) {
                                    System.out.println("Invalid Category");
                                }

                                return 0;
}

```

Catch exception in main method not in dao method

Test case not right

1) Update Product Price

2) Exit

1

Enter the Product Category:

sdf

Exception in thread "main" [java.lang.NullPointerException](#)

at

[com.cg.productmgmt.service.ProductService.isCategoryValid\(ProductService.java:44\)](#)

at [com.cg.productmgmt.ui.Client.main\(Client.java:37\)](#)

- 1) Update Product Price
- 2) Exit

1

Enter the Product Category:

soap

```
Exception in thread "main" java.lang.NullPointerException
    at
com.cg.productmgmt.service.ProductService.isCategoryValid(ProductService.java
:44)
    at com.cg.productmgmt.ui.Client.main(Client.java:37)
```

cant execute code

Mani Deepika

```
ProductDAO.salesDetails = salesDetails;
    salesDetails= new HashMap<>();

    salesDetails.put("lux", 100);

    salesDetails.put("colgate", 50);

    salesDetails.put("pears", 70);

    salesDetails.put("sony", 10000);

    salesDetails.put("samsung", 23000);

    salesDetails.put("facepack", 100);

    salesDetails.put("facecream", 60);
    Set keys=salesDetails.keySet();
    Iterator itr=keys.iterator();
    String key;
    int value;
    //displaying the values
    while(itr.hasNext()) {
        key=(String)itr.next();
        value=(int)salesDetails.get(key);
        System.out.println(key+" - "+value);
    }
}
```

Don't add code wherever u like

Follow instructions and write within static map

```
public boolean isCategoryValid(String category) throws ProductException{

    return false;

}
@Override
```

```

        public int updateProducts(String Category, int hike) throws
ProductException {

            return 0;

        }

        @Override
        public Map<String, Integer> getProductDetails() {

            return null;

        }

        public Map<String, Integer> getProductDetails() {

            return null;

        }
        public boolean isHikeValid(int hike) {
            boolean b=false;
            if(hike>0)
                b=true;
            else {
                System.out.println("hikerate should be greater than
zero");

                System.out.println("enter the valid hikerate");
            }
            return b;
        }
        public boolean isCategoryValid(String category) {

            return false;

        }
    }

```

All methods above are wrong

Syso is written only in main mehtd

Test case is empty

Not getting any output cos of following code

```

Scanner sc=new Scanner(System.in);
int ch;
char choice;
ch=sc.nextInt();

do {

    //creating the menu
    System.out.println("1.update product price\n 2. exit \n");
    System.out.println("enter your choice:");
    switch(ch)

```

u r forcing me to enter a value without prompting me

how wil I know I have to entere

don't make your own flow. Follow instructions given in paper

not able to execute your program

Ritu bisht

```
public int updateProducts(String Category,int hike) throws ProductException{
    return hike;
}

public Map<String,Integer> getProductDetails(){
    return null;
}

public int updateProducts(String Category,int hike) throws
ProductException{
    return hike;
}

public Map<String,Integer> getProductDetails(){
    return null;
}

//Hike Validation
public boolean isHikeValid(int hike) {
    if(hike>0)
        return true;
    else
        return false;
}

//Category Validation
public boolean isCategoryValid(String category) {
    // TODO Auto-generated method stub
    return false;
}
```

Above methods are wrong except ishivevalid

```
ProductDAO e=new ProductDAO(1,'',100);
HashMap<String,ProductDAO> map=new HashMap<String, ProductDAO>();
ProductDAO daobj=new ProductDAO();
map.put(1, e);
ProductDAO expected=map.get(1);
ProductDAO actual=map.get(e.getSalesDetails());
assertEquals(expected,actual);
```

u have to write test case to test dao layer methods

not understood looks like

```
1.Update Product Price
2.Exit
1
Enter the Product Category:
skdf
Category not found
```

Good. But program terminates

```
1.Update Product Price
2.Exit
1
Enter the Product Category:
soap
Category not found
```

Did not understand above execution

Roshni b

Dao layer code is good

```
public int updateProducts(String Category, int hike) throws ProductException
{

    daoobj.updateProducts(Category,hike);
    return 0;

}

@Override
public Map<String, Integer> getProductDetails() {
    daoobj.getProductDetails();
    return null;
}
```

why returning wrong values from service layermehtods

```
@Test
public void daoTest() {
HashMap h=new HashMap();
assert(h instanceof HashMap);
}
```

test case is wrong

```
1)Update Product Price
2)Exit
```

```

Enter your choice : 1
Enter the Product Category :
sdf
Category not found
com.cg.productmgmt.exception.ProductException
1)Update Product Price
2)Exit

Enter your choice :      at
com.cg.productmgmt.dao.ProductDAO.isCategoryValid(ProductDAO.java:123)
      at
com.cg.productmgmt.service.ProductService.isCategoryValid(ProductService.java
:53)
      at com.cg.productmgmt.ui.Client.main(Client.java:33)

```

```

1)Update Product Price
2)Exit

```

```

Enter your choice : 1
Enter the Product Category :
soap
Enter hike Rate :
10
Do you want to continue (y/n)...? :

Why don't u show updated price to user

How will we know whether logic of update is working or not

```

Ruchita

```

public int updateProducts(String Category, int hike) throws ProductException
{
    if(productDetails.containsKey(Category)) {
        System.out.println(Category);
    }
    else {
        throw new ProductException("Category not found");
    }
    salesDetails.get(hike);
    // TODO Auto-generated method stub
    return 0;
}

@Override
public Map<String, Integer> getProductDetails() {
    // TODO Auto-generated method stub
    System.out.println(getSalesDetails());
    return null;
}

public Map<String, Integer> getProductDetails() {
    // TODO Auto-generated method stub

```

```

        pd.getProductDetails();
        return null;
    }

    public static int ishikeValid(int hr) {
        Scanner sc=new Scanner(System.in);
        if(hr<0 )
        {
            System.out.println("Hike rate should be greater than
zero");
            System.out.println("Enter again:");
            hr=sc.nextInt();
        }
        else {
            System.out.println(hr);
        }
        return hr;
    }

```

scanner and syso shldbe used on ly in main method

Where is update logic

Why returning null

```

public static String iscategoryValid(String pc) throws ProductException{
    Map<String,String> productDetails= new HashMap<>();
    while(true)
        if(productDetails.containsValue(pc)) {
            System.out.println(pc);
        }
        else {
            throw new ProductException("Category not found");
        }
    }

```

Above is good

```

@Test
public void setMapTest() {
    HashMap productDetails=new HashMap(); //Testing
    //List l=new ArrayList();
    assert(productDetails instanceof HashMap);
    //assert(map.isEmpty());
}

```

What is this

*****Select an option*****

1.Update ProductPrice

2.Exit

enter your choice:

1

Enter product category:

sdfg

Category not found

Exception in thread "main" [com.cg.productmgmt.exception.ProductException](#)

```

        at
com.cg.productmgmt.service.ProductService.iscategoryValid(ProductService.java
:52)
        at com.cg.productmgmt.ui.Client.main(Client.java:37)

```

give meaningful msg when category is not found

```

*****Select an option*****
1.Update ProductPrice
2.Exit
enter your choice:
1
Enter product category:
soap
Category not found
Exception in thread "main" com.cg.productmgmt.exception.ProductException
        at
com.cg.productmgmt.service.ProductService.iscategoryValid(ProductService.java
:52)
        at com.cg.productmgmt.ui.Client.main(Client.java:37)

```

not working as expected

Rudrapaka

Dao class

```

        public int updateProducts(String Category, int hike) throws
ProductException {

                return 0;

        }

        @Override
        public Map<String, Integer> getProductDetails() {
                // TODO Auto-generated method stub
                return null;
        }
        public boolean isCategoryValid(String category) throws
ProductException
        {

                return false;

        }

```

not good at all

```

public int updateProducts(String Category, int hike) throws ProductException
{

        d.updateProducts(Category, hike);
        return 0;

}

@Override
public Map<String,Integer> getProductDetails() {

```



```

        d.getProductDetails();
        return null;
    }

    public boolean isCategoryValid(String category) throws ProductException{
        while(true)
        {
            if(category != null)
            {
                return true;
            }
            else
            {
                System.out.println("Category not found:");
                return false;
            }
        }
    }
}

```

why returning wrong values like null and 0

syso only in main method pls

```

1.UpdateProductPrice
2.Exit
Enter your choice:
1
Enter product category:
sosd
Enter hikerate:
12
Enter product category:

```

Whats this ??

Not working as expected

Sai krishna vasamsetti

```

public boolean isCategoryValid(String category) throws ProductException{
    while(true) {
        if(category==category) {

        }else {
            throw new ProductException(toString());
        }
        return false;
    }
}

```

```

@Override
public int updateProducts(String Category, int hike) throws
ProductException {

```

```

        return 0;
    }

    @Override
    public Map<String, Integer> getProductDetails() {

        return null;
    }

```

Above wrong

```

public int updateProducts(String Category,int hike) throws ProductException{
    return hike;
}

public Map<String,Integer> getProductDetails(){
    return getProductDetails();
}

```

```

    public boolean isHikeValid(int hike) {
        while(true) {
            if(hike>0) {
                return true;
            }else {
                System.out.println("Hike rate should be greater than
zero");
            }

            return false;
        }
    }

```

Alteast delegate to dao layer

```

public void set MapTest(){
    HashMap Map = new HashMap();
    assert(map instanceof HashMap);
    assert(map.isEmpty());
}
}

```

Compilation error

Cannot execute your code

shivakeshava reddy

```
    public int updateProducts(String Category, int hike) throws
ProductException
    {
        hm.put(salesDetails,productDetails);
        return 0;
    }

    @Override
    public Map<String, Integer> getProductDetails() {
        // TODO Auto-generated method stub
        return null;
    }
}
```

Above dao code is not right

Service layerbelow

```
public int updateProducts(String Category, int hike) throws ProductException
{
    // TODO Auto-generated method stub
    d.updateProducts(Category, hike);
    return 0;
}

@Override
public Map<String, Integer> getProductDetails() {
    // TODO Auto-generated method stub
    return null;
}

public boolean isCategoryValid(String category) {
    // TODO Auto-generated method stub

    return false;
}

public boolean ishHikeValid(int hike) {
    // TODO Auto-generated method stub
    boolean b =false;
    if(hike>0)
    {
        b = true;
        return b;
    }
    return false;
}
}
```

Why u could not write the code ?

Test case is empty

Cant execute code ; compilation errors present

sridevi madalla

```
public static void setSalesDetails(Map<String, Integer> salesDetails) {
    ProductDAO.salesDetails = salesDetails;
    salesDetails= new HashMap<>();

    salesDetails.put("lux", 100);

    salesDetails.put("colgate", 50);
}
```

don't add code wherever u like ; follow instructions given in paper

```
public boolean isCategoryValid(String category) throws ProductException{
    if("tr" != null)
        return false;
        return false;
}
@Override
public int updateProducts(String Category, int hike) throws
ProductException {

    return 0;
}

@Override
public Map<String, Integer> getProductDetails() {

    return null;
}
```

All above are not right

Service

```
public int updateProducts(String Category, int hike) throws ProductException
{
    // TODO Auto-generated method stub
    return 0;
}

@Override
public Map<String, Integer> getProductDetails() {
```

```

        return null;
    }
    public boolean isHikeValid(int hike) {
        boolean b=false;
        if(hike>0)
            b=true;
        return b;
    }
    public boolean isCategoryValid(String category) {

        return false;
    }

```

Why u could not code this service layer ?

Test case empty

```

Scanner sc=new Scanner(System.in);
    int ch;
    char choice;
    ch=sc.nextInt();

```

code is similar to another mentioned above; same comment

Vidushi

```

public int updateProducts(String Category, int hike) throws ProductException
{
    // TODO Auto-generated method stub

    return 0;
}

    public Map<String, Integer> getProductDetails() throws
ProductException {
    // TODO Auto-generated method stub
    if(salesDetails.isEmpty())
        throw new ProductException("Category not
found");
    else
    {
        Set keys=salesDetails.keySet();
        Iterator itr=keys.iterator();
        int key;
        Integer value;
        while(itr.hasNext())
        {
            key=(Integer) itr.next();

```

```

        value=salesDetails.get(key);
        System.out.println(value);
    }
    }
    return null;
}

public int updateProducts(String Category, int hike) throws ProductException
{
    // TODO Auto-generated method stub
    return 0;
}

@Override
//method to get all product details
public Map<String, Integer> getProductDetails() throws ProductException
{
    // TODO Auto-generated method stub
    pdaoObj.getProductDetails();
    return null;
}

//method to validate hike rate
public boolean isHikeValid(int hike)
{
    boolean b=false;
    if(hike>0)
        b=true;
    else
        System.out.println("Hike rate should be greater than
zero");
    return b;
}

//method to validate category
public boolean isCategoryValid(String category) throws ProductException
{
    pdaoObj.getProductDetails();
    return false;
}

```

Except hike rate; all other methods incorrect

Test cse incorrect

```

@Test
public void setProductDetailsTest()
{
    HashMap map=new HashMap();
    assert(map instanceof HashMap);
}

```

1) Update Product Price

2) Exit

Enter your choice

1

Enter the Product Category :

```

sd
Enter hike Rate :
2
Do you want to continue (y/n)...? : y
1) Update Product Price
2) Exit
Enter your choice
1
Enter the Product Category :
soap
Enter hike Rate :
2
Do you want to continue (y/n)...? :
Is the output meaningful even ?

```

Vuda sampat

```

    public void productDetails()
    {
        productDetails.put("lux","soap");

        productDetails.put("colgate","paste");

        productDetails.put("pears","soap");

        productDetails.put("sony","electronics");

        productDetails.put("samsung","electronics");

        productDetails.put("facepack", "cosmatics");

        productDetails.put("facecream", "cosmatics");
    }

```

Don't write code wherever u like

```

    public int updateProducts(String Category, int hike) throws
    ProductException
    {
        //hm.put(salesDetails,productDetails);
        return 0;
    }

    @Override
    public Map<String, Integer> getProductDetails() {
        // TODO Auto-generated method stub
        return null;
    }

```

Above not right

One method missing ; validatecategory

```

    public int updateProducts(String Category, int hike) throws
ProductException {
        // TODO Auto-generated method stub
        d.updateProducts(Category, hike);
        return 0;
    }

    @Override
    public Map<String, Integer> getProductDetails() {
        // TODO Auto-generated method stub
        return null;
    }

    public boolean isCategoryValid(String category) {
        // TODO Auto-generated method stub

        return false;
    }

```

not good

test case is empty

```

1)    Update Product Price
2)    Exit
1
Enter the Product Category :
asd
Enter the Product Category :
sdf
Enter the Product Category :
soap
Enter the Product Category :

```

Don't understand above

Yamuna veni

```

    public int updateProducts(String Category, int hike) throws
ProductException {

        return 0;
    }

    @Override
    public Map<String, Integer> getProductDetails() {
        // TODO Auto-generated method stub
        return null;
    }

    public boolean isCategoryValid(String category) throws
ProductException {

        return false;
    }

```


don't understand why u could not write

```
public int updateProducts(String Category, int hike) throws ProductException
{
    // TODO Auto-generated method stub
    return 0;
}

@Override
public Map<String, Integer> getProductDetails() {
    // TODO Auto-generated method stub
    return null;
}
public boolean isHikeValid(int hike) {
    return false;
}
public boolean isCategoryValid(String category) throws ProductException
{
    return false;
}
```

Test case is empty

1.Update product price

2.Exit

1

Enter the Product Category:

Hike rate should be greater than zero

1.Update product price

2.Exit

1

Enter the Product Category:

Hike rate should be greater than zero

1.Update product price

2.Exit

Don't understand above