

Java Assessment ReTest 31-Aug-2

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Insurance Bazaar

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Insurance Bazaar is developing an online website for showcasing various types of Insurance policies to their customers based on their needs. There are various types of Insurances provided by different insurance agencies. The admin of Insurance Bazaar wants to add different insurance policy names like Max Bupa Health Insurance, SBI Health Insurance, IFFCO Tokio Two Wheeler Insurance and New India Assurance Two Wheeler Insurance to his database with Policy ID as the Tags.

Customers can view the names of all the policies available in Insurance Bazaar based on the type of insurance.

Write a Java program to simulate this scenario. Key (Policy ID) should be an Integer and Value (Insurance policy name) should be a String. The key-value should be sorted based on the key. Use the appropriate Collection to Store all these details and display.

The **addPolicyDetails** method should add the Policy ID and the Policy name into the appropriate map.

The **searchBasedOnPolicyType** method should return the list of Insurance policy ID depending on the input provided. This method takes the input as string (Input can be either Health or Two Wheeler).

The signature of the above functions are given as part of code skeleton, do not change the function signature.

Sample key values of Insurance Policy names:

10321	SBI Health Insurance
20145	IFFCO Tokio Two Wheeler Insurance
20165	New India Assurance Two Wheeler Insurance
10110	Reliance Health Insurance

Sample Input and Output1

Enter the no of Policy names you want to store

5

Enter the Policy ID

10654

Enter the Policy Name

Max Bupa Health Insurance

Enter the Policy ID

10321

Enter the Policy Name

SBI Health Insurance

Enter the Policy ID

20145

Enter the Policy Name

IFFCO Tokio Two Wheeler Insurance

Enter the Policy ID

20165

Enter the Policy Name

New India Assurance Two Wheeler Insurance





Enter the Policy Name

Reliance Health Insurance

10110 Reliance Health Insurance

10321 SBI Health Insurance

10654 Max Bupa Health Insurance

20145 IFFCO Tokio Two Wheeler Insurance

20165 New India Assurance Two Wheeler Insurance

Enter the policy type to be searched

Two Wheeler

20145

20165

Sample Input and Output2

Enter the no of Policy names you want to store

4

Enter the Policy ID

10654

Enter the Policy Name

Max Bupa Health Insurance

Enter the Policy ID

10321

Enter the Policy Name

SBI Health Insurance

Enter the Policy ID

20145



Enter the Policy ID

20165

Enter the Policy Name

New India Assurance Two Wheeler Insurance

10321 SBI Health Insurance

10654 Max Bupa Health Insurance

20145 IFFCO Tokio Two Wheeler Insurance

20165 New India Assurance Two Wheeler Insurance

Enter the policy type to be searched

Health

10321

10654



Requested files

InsuranceBazaar/src/com/ui/UserInterface.java

```
1 package com.ui;
2 import com.utility.*;
3 import java.util.*;
4
5 public class UserInterface {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner sc =new Scanner(System.in);
10        //Fill the UI code
11
12
13    }
14
15 }
16
```

InsuranceBazaar/src/com/utility/Bazaar.java

```
5
6 public class Bazaar {
7
8     private Map<Integer,String> policyMap;
9
10    public Map<Integer, String> getPolicyMap() {
11        return policyMap;
12    }
13
14    public void setPolicyMap(Map<Integer, String> policyMap) {
15        this.policyMap = policyMap;
16    }
17
18    //This method should add the policyID as key and policyName as value into the policyMap
19    public void addPolicyDetails(int policyId,String policyName)
20    {
21    }
22
23
24    /*
25     * This method should search the policy name based on the policy type and add those polic
26     * into the list and return the list.
27     * For example: If the map contains the key and value as:
28     * 10654 Max Bupa Health Insurance
29     * 10321 SBI Health Insurance
30     * 20145 IFFCO Tokio Two Wheeler Insurance
31     * 20165 New India Assurance Two Wheeler Insurance
32     * 10110 Reliance Health Insurance
33     * if the policy type is Health the output should be
34     * 10110
35     * 10321
36     * 10654
37     */
38
39    public List<Integer> searchBasedOnPolicyType(String policyType){
40
41
42
43        return null;
44    }
45
46
47
48 }
49
```



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