#### 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 *int* n;

11 *int* pid;

12

13 System.out.println("Enter the no of Policy names you want to store");

14

15 n=sc.nextInt();

16 Bazaar b1=*new* Bazaar();

17

18 *for*(*int* i=0;i<n;i++)

19 {

20 System.out.println("Enter the Policy ID");

21 pid=sc.nextInt();

22 System.out.println("Enter the Policy Name");

23 sc.nextLine();

24 String pname=sc.nextLine();

25

26 b1.addPolicyDetails(pid,pname);

27 }

28 Map<Integer,String> policymap=

29

30 Map<Integer,String> sortedmap=*new* TreeMap<Integer,String>(b1.getPolicyMap(););

31 *for*(*int* key:sortedmap.keySet())

32 {

33 System.out.println(key+" "+sortedmap.get(key));

34

35 }

36 b1.setPolicyMap(sortedmap);

37 System.out.println("Enter the policy type to be searched");

38 String ptype=sc.nextLine();

39 List <Integer> list=*new* ArrayList <Integer>();

40 list=b1.searchBasedOnPolicyType(ptype);

41 *for*(*int* i=0;i<list.size();i++)

42 {

43 System.out.println(list.get(i));

44 //System.out.println(list.get(i).getClass().getName());

45 }

46 *if*(list.size()==0)

47 System.out.println("");

48

49

50

51 }

52

53 }

54

#### InsuranceBazaar/src/com/utility/Bazaar.java

1 *package* com.utility;

2 *import* com.ui.\*;

3 *import* java.util.\*;

4

5

6 *public* *class* Bazaar {

7

8 *private* Map<Integer,String> policyMap=*new* HashMap<Integer,String>();

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 policyMap.put(policyId,policyName);

22 }

23

24 /\*

25 \* This method should search the policy name based on the policy type and add those policy names

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 List<Integer> list=*new* ArrayList<Integer>();

41 *for*(*int* key:policyMap.keySet())

42 {

43 *if*(policyMap.get(key).contains(policyType))

44 list.add(key);

45 }

46 *if*(list.size()!=0)

47 *return* list;

48

49

50 *return* *null*;

51

52 }

53

54

55 }

56