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 polices 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 Policy ID and policy names:

Policy ID	**policy names**
10654	Max Bupa Health Insurance
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 ID

10110

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 Name

IFFCO Tokio Two Wheeler Insurance

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

Book Manipulation

The district central library needs an application to store book details of their library. The clerk who has all the rights to add a new book,search for any book,display the book details and should update the count of total number of books.

You are provided with a Book with the following private attributes:

- int isbnno
- String bookName
- String author

Needed getters and setters are written.
Create a class Library with the following private attribute:

- ArrayList<Book> bookList = new ArrayList<Book>();
- Also provide the necessary setter and getter methods.

Include the following public methods:

1. void addBook(Book bobj) - This method should add the book object to the booklist.
2. boolean isEmpty() - This method should return true if the booklist is empty else return false.
3. ArrayList<Book> viewAllBooks() - This method should return the list of books maintained in the library.

4. ArrayList<Book> viewBooksByAuthor(String author) - This method should return a list of books written by the author passed as argument. When you display an empty list it should print the message "The list is empty".
5. int countnoofbook(String bname) - this method should return the count of books with the name passed as argument.

Write a Main class to test the above functionalities.

Sample Input and Output 1:

1.Add Book
2.Display all book details
3.Search Book by author
4.Count number of books - by book name
5.Exit
Enter your choice:
1
Enter the isbn no:
123
Enter the book name:
Java
Enter the author name:
Bruce Eckel
1.Add Book
2.Display all book details
3.Search Book by author
4.Count number of books - by book name
5.Exit
Enter your choice:
1
Enter the isbn no:
124
Enter the book name:
C++
Enter the author name:
Eric Nagler
1.Add Book
2.Display all book details
3.Search Book by author
4.Count number of books - by book name
5.Exit
Enter your choice:
3
Enter the author name:
Henry
None of the book published by the author Henry
1.Add Book
2.Display all book details
3.Search Book by author

4.Count number of books - by book name
5.Exit
Enter your choice:
3
Enter the author name:
Eric Nagler
ISBN no: 124
Book name: C++
Author name: Eric Nagler
1.Add Book
2.Display all book details
3.Search Book by author
4.Count number of books - by book name
5.Exit
Enter your choice:
5