Role and Privilege Mapping

Any system will have many privileges and many roles .A Role is defined as the specific position of the person in the System and a privilege is the various functionalities he has been allocated to in the System. Write a program to implement the concept of Many relationship using the privilege and role mapping in a System where many roles can have many privileges'.

Pre-load the roles and privilages of a system and assign a role to a particular privilege (same role can be assigned to a different privilege and same privilege can be assigned to different roles) getting it as input from the user. User two types of search types: Search based on Role and search based on privilege. Your block of code should finally display the Privelages for a specific Role.

Problem Specifications:

[Note: Strictly adhere to the object oriented specifications given as a part of the problem statement. Use the same class names, attribute names and method names.]

Create a class named under Role with the following private member variable/attributes

- Integer Id
- String name
- String description
- 1. Include appropriate getters and setters.
- 2. Include 3 argument constructor with argument order id,name,description.

Create a class named **Privilege** with the following private member variables/attributes **Problem specifications:**

- Integer Id
- String name
- 1. Include appropriate getters and setters.
- 2. Include a default constructor and 2 argument constructor with argument order id,name.

Create a class named **Privilege role** with the following private member variables/attributes **Problem specifications:**

- Role role
- Privilege Privilege
- 1. Include appropriate getters and setters.
- 2. Include a default constructor and 2 argument constructor with argument order role, Privilege.

Create a PrivilegeRoleBO class, which includes following method.

d Name	d Description
splayRoleDetailsByPrivilage (PrivilageRole[]priviliageRole,St privilage)	method, search and display the role name depends upon privilege name.
splayRole(Role[]roles)	method, display the pre-loaded roles.
splayPrivilage(Privilage[]privilage	e) method, display the pre-loaded privilages.
splayPrivilage DetailsByRole (PrivilageRole[]priviliageRole,St role)	method, search and display the privilege name depends upon role name.

Use System.out.format("%-15s%s/n","Id","Name") to format the string.

Create a **Main** class to test the above 4 classes. In the main method, create an array of PrivilageRole instances. Invoke the various methods PrivilageRoleBO class and test them.

Note:

Role and previlage details are preloaded and given in the tempalate code.

Input and Output Foramt:

Refer sample input and output

[All text in bold corresponds to input and the rest corresponds to output.]

Sample Input and Output 1:

D	Name
1	Software Developer
2	Manager

3 Tester

Role Details:

4 General Manager

Privilege Details:

ID Name

1 Admin		
2 DecisionMaking		
3 Ordering		
4 Managing		
5 Development		
Enter the number of previlages to assign the role:		
6		
Enter the role id and previlage id 1:		
1,2		
Enter the role id and previlage id 2:		
1,1		
Enter the role id and previlage id 3:		
1,4		
Enter the role id and previlage id 4:		
2,5		
Enter the role id and previlage id 5:		
3,4		
Enter the role id and previlage id 6:		
3,1		
 Search by role Search by previlage 		
3. Exit.		
Enter the choice:		
1		
Enter the role to search:		
Software Developer		

Admin		
Managing		
	arch by role arch by previlage it.	
Enter the choice:		
1		
Enter the role to search:		
General Manager		
There is no previlage for that role		
	arch by role arch by previlage it.	
Enter the choice:		
2		
Enter the previlage to search:		
Admin		
Role name:		
Software Developer		
Tester		
	arch by role arch by previlage it.	
Enter the choice:		

Privilage name :

Decision making

Enter the previlage to search:

Ordering

There is no role for that privilage

- 1. Search by role
- 2. Search by previlage
- 3. Exit.

Enter the choice:

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