

INFORMATION MANAGEMENT EXPERT SYSTEM

```
import java.util.*;

public class InformationManagementExpertSystem {

    static Map<String, String> knowledgeBase = new HashMap<>();

    static {

        // Populate the knowledge base

        knowledgeBase.put("What is your name?", "My name is ExpertBot.");

        knowledgeBase.put("What is information management?", "Information
management is the process of collecting, storing, managing, and distributing
information.");

        knowledgeBase.put("What are the benefits of information
management?", "Benefits of information management include improved
decision-making, increased efficiency, and better compliance.");

        // Add more knowledge base entries as needed

    }

    static String processQuery(String query) {

        // Check if the query exists in the knowledge base

        if (knowledgeBase.containsKey(query)) {

            return knowledgeBase.get(query);

        } else {

            return "I'm sorry, I don't have information on that topic.";

        }

    }

    public static void main(String[] args) {

        Scanner = new Scanner(System.in);
```

```
System.out.println("Welcome to the Information Management Expert  
System.");
```

```
System.out.println("You can ask questions about information  
management. Type 'exit' to quit.");
```

```
while (true) {  
    System.out.print("You: ");  
    String userInput = scanner.nextLine();  
    if (userInput.equalsIgnoreCase("exit")) {  
        System.out.println("Exiting the Expert System.");  
        break;  
    }  
    String response = processQuery(userInput);  
    System.out.println("ExpertBot: " + response);  
}  
scanner.close();  
}  
}
```

OUTPUT:

```
Welcome to the Information Management Expert System.  
You can ask questions about information management. Type 'exit' to quit.  
You: what is your name  
ExpertBot: I'm sorry, I don't have information on that topic.  
You: What is information management?  
ExpertBot: Information management is the process of collecting, storing, managing, and distributing information.  
You: What are the benefits of information management?  
ExpertBot: Benefits of information management include improved decision-making, increased efficiency, and better compliance.  
You: exit  
Exiting the Expert System.  
PS C:\Users\HP\Desktop\LP2> 
```