**TASK 1**

CHATBOT WITH RULE-BASED

RESPONSES

Build a simple chatbot that responds to user inputs based on

predefined rules. Use if-else statements or pattern matching

techniques to identify user queries and provide appropriate

responses. This will give you a basic understanding of natural

language processing and conversation flow.

**CODE:-**

import java.util.Scanner;

public class SimpleChatbot

{

public static void main(String[] args)

{

Scanner scanner=new Scanner(System.in);

System.out.println("Hello! I'm a simple chatbot. How can I assist you today?");

while(true)

{

System.out.print("You: ");

String userInput=scanner.nextLine().toLowerCase();

if(userInput.contains("hello")||userInput.contains("hi"))

{

System.out.println("Chatbot: Hello! How can I help you today?");

}

else if(userInput.contains("your name"))

{

System.out.println("Chatbot: I'm a simple chatbot built in Java!");

}

else if(userInput.contains("time"))

{

System.out.println("Chatbot: I'm not equipped to tell the time, but you can check your device!");

}

else if(userInput.contains("weather"))

{

System.out.println("Chatbot: I don't have real-time weather updates, but you can check online!");

}

else if(userInput.contains("creator")||userInput.contains("who made you"))

{

System.out.println("Chatbot: I was created by a developer learning Java!");

}

else if(userInput.contains("java"))

{

System.out.println("Chatbot: Java is a versatile and widely-used programming language.");

}

else if(userInput.contains("age"))

{

System.out.println("Chatbot: I'm as old as the code running me!");

}

else if(userInput.contains("help"))

{

System.out.println("Chatbot: I'm here to answer simple questions. Feel free to ask!");

}

else if(userInput.contains("bye"))

{

System.out.println("Chatbot: Goodbye! Have a great day!");

break;

}

else if(userInput.contains("hobby"))

{

System.out.println("Chatbot: My hobby is responding to questions and helping people!");

}

else

{

System.out.println("Chatbot: I'm not sure about that. Can you ask something else?");

}

}

scanner.close();

}

}

**OUTPUT:-**

