

Task 1

CHATBOT WITH RULE-BASED RESPONSES

Code:

```
import java.util.Scanner;

public class SimpleChatbot {

    public static void main(String[] args) {
        // Create a Scanner object to read input from the user
        Scanner scanner = new Scanner(System.in);
        String userInput;

        System.out.println("Hello! I'm a simple chatbot. Type 'exit' to end the conversation.");

        // Loop to continuously interact with the user
        while (true) {
            // Read user input
            System.out.print("You: ");
            userInput = scanner.nextLine();

            // Check if the user wants to exit
            if (userInput.equalsIgnoreCase("exit")) {
                System.out.println("Chatbot: Goodbye! Have a great day!");
                break;
            }
        }
    }
}
```

```

        // Respond based on user input
        if (userInput.equalsIgnoreCase("hi") ||
userInput.equalsIgnoreCase("hello")) {
            System.out.println("Chatbot: Hi there! How can I help you today?");
        } else if (userInput.equalsIgnoreCase("how are you")) {
            System.out.println("Chatbot: I'm just a program, but I'm doing great!
How can I assist you?");
        } else if (userInput.equalsIgnoreCase("what is your name")) {
            System.out.println("Chatbot: I don't have a name, but you can call me
Chatbot.");
        } else if (userInput.equalsIgnoreCase("what time is it")) {
            // Get the current time
            java.util.Date now = new java.util.Date();
            System.out.println("Chatbot: The current time is " + now.toString());
        } else {
            System.out.println("Chatbot: I'm sorry, I didn't understand that. Can
you please ask something else?");
        }
    }
}

// Close the scanner
scanner.close();
}
}

```