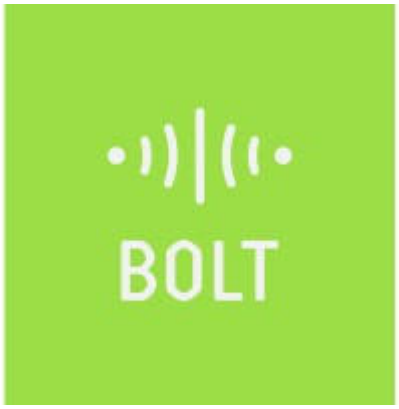


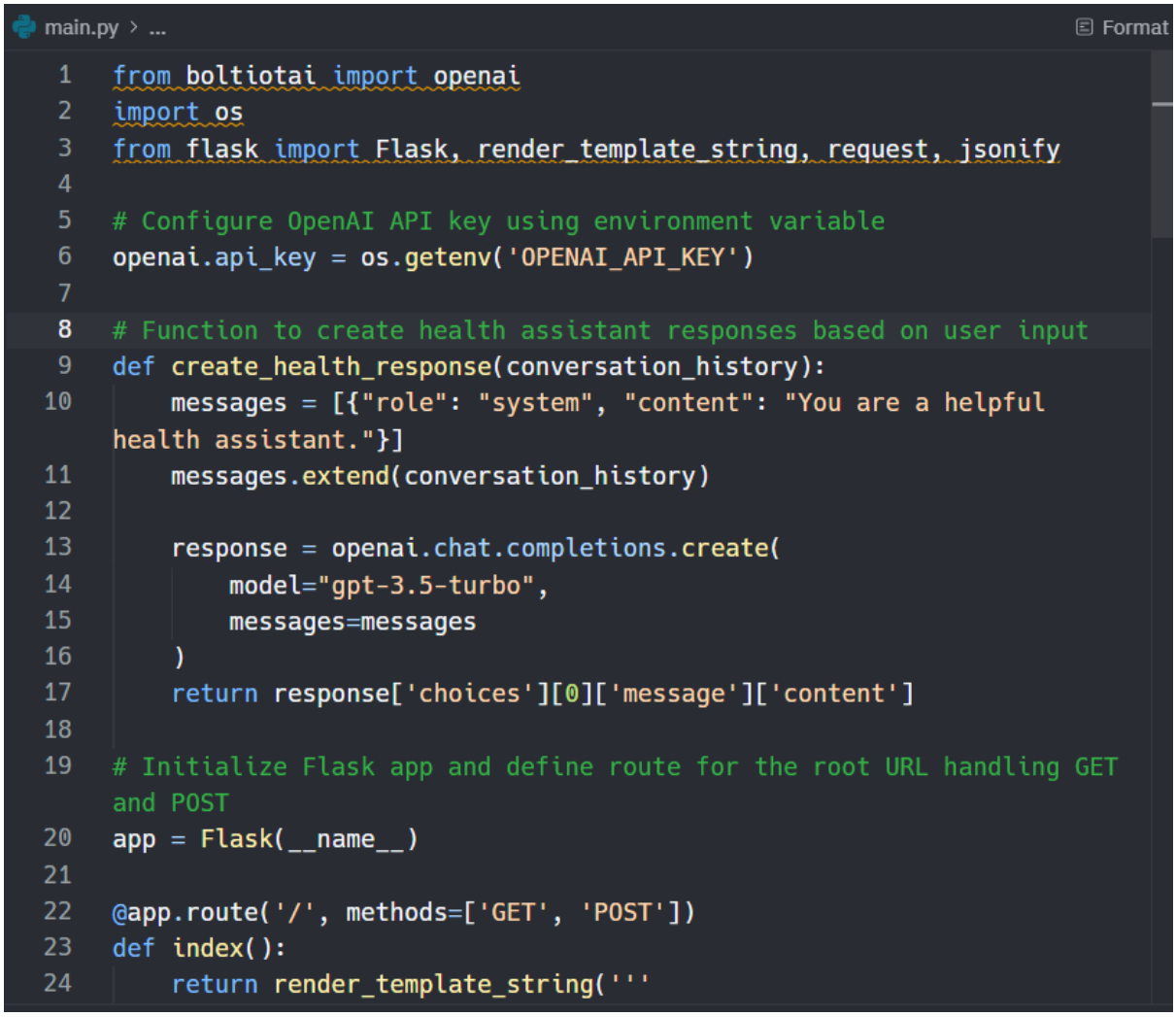
BOLT IOT ARTIFICIAL INTELLIGENCE TRAINING

VANSH
B.Tech from Netaji Subhash University of Technology

Problem Statement 2

Develop a 'Personal Health Assistant' code using the fundamental concepts learned as part of the training.

Code written in replit :



main.py > ... Format

```
    <!DOCTYPE html>
    <html>
    <head>
        <title>Personal Health Assistant</title>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">
        <script>
            async function sendUserMessage() {
                const userMessage = document.querySelector('#userMessage').value;
                if (!userMessage.trim()) return;

                const chatBox = document.querySelector('#chatBox');
                const userDiv = document.createElement('div');
                userDiv.className = 'alert alert-primary';
                userDiv.textContent = userMessage;
                chatBox.appendChild(userDiv);

                document.querySelector('#userMessage').value = '';
                chatBox.scrollTop = chatBox.scrollHeight;

                const response = await fetch('/chat', {
                    method: 'POST',
                    headers: {
                        'Content-Type': 'application/json'
                    },
```

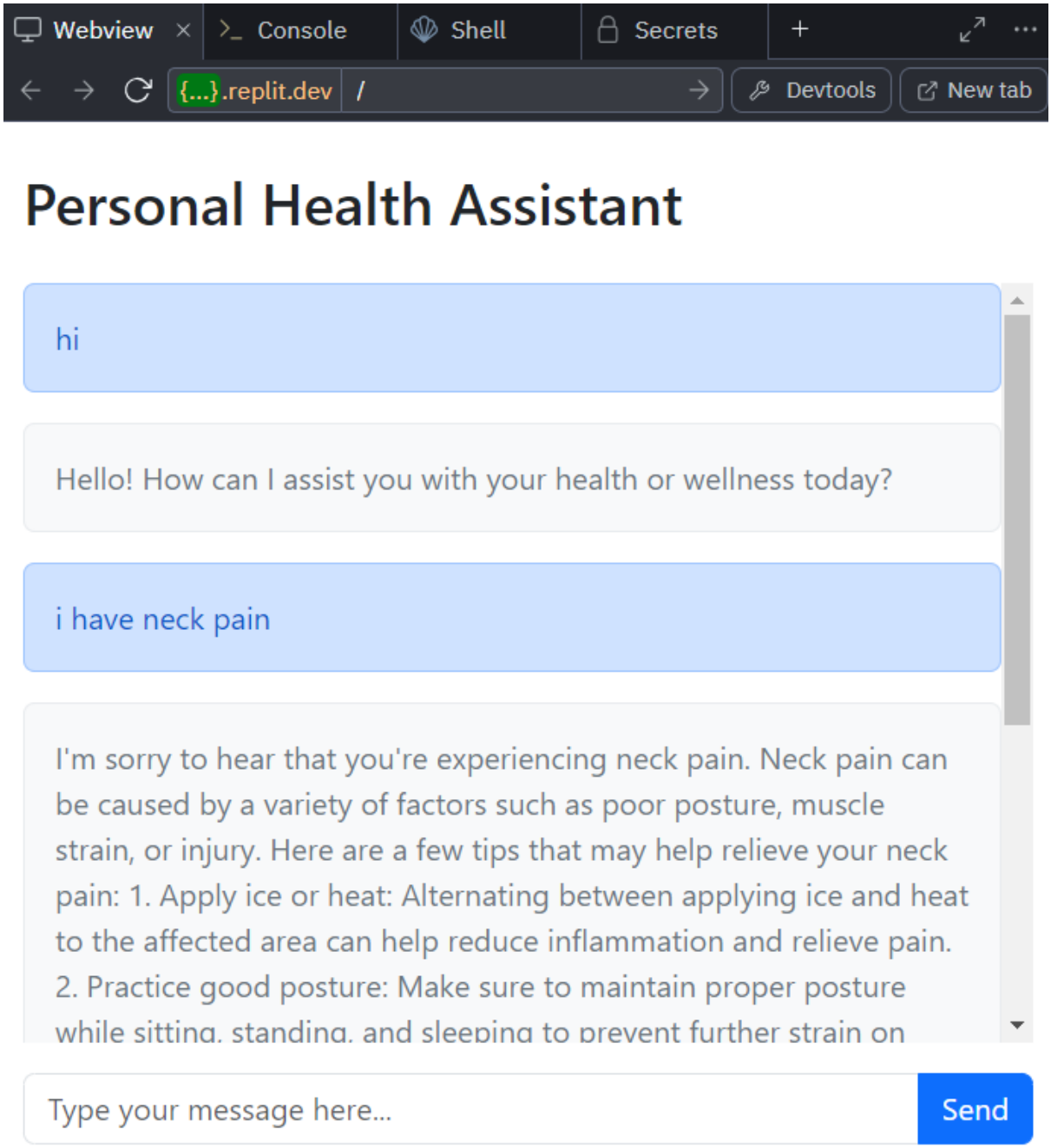
main.py > ... Format

```
                    body: JSON.stringify({message: userMessage})
                });

                const data = await response.json();
                const assistantDiv = document.createElement('div');
                assistantDiv.className = 'alert alert-secondary';
                assistantDiv.textContent = data.response;
                chatBox.appendChild(assistantDiv);
                chatBox.scrollTop = chatBox.scrollHeight;
            }
        </script>
    </head>
    <body>
        <div class="container">
            <h1 class="my-4">Personal Health Assistant</h1>
            <div id="chatBox" class="mb-3" style="max-height: 400px;
overflow-y: scroll;"></div>
            <div class="input-group mb-3">
                <input type="text" class="form-control"
id="userMessage" placeholder="Type your message here...">
                <button class="btn btn-primary" type="button"
onclick="sendUserMessage()">Send</button>
            </div>
        </div>
    </body>
    </html>
```

main.py > ...

```
    ''')

# Endpoint for processing chat messages
@app.route('/chat', methods=['POST'])
def chat():
    data = request.json
    user_message = data.get('message', '')

    if 'conversation' not in request.cookies:
        conversation_history = [{"role": "assistant", "content": "Hello! How can I assist you with your health today?"}]
    else:
        conversation_history = eval(request.cookies.get('conversation'))

    conversation_history.append({"role": "user", "content": user_message})
    assistant_response = create_health_response(conversation_history)
    conversation_history.append({"role": "assistant", "content": assistant_response})

    response = jsonify({'response': assistant_response})
    response.set_cookie('conversation', str(conversation_history))

    return response


# Run the Flask app if executed as the main program
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080)
```

Webview:


Webview
Console
Shell
Secrets
{...}.replit.dev
/
Devtools
New tab
Personal Health Assistant
hi
Hello! How can I assist you with your health or wellness today?
i have neck pain
I'm sorry to hear that you're experiencing neck pain. Neck pain can be caused by a variety of factors such as poor posture, muscle strain, or injury. Here are a few tips that may help relieve your neck pain: 1. Apply ice or heat: Alternating between applying ice and heat to the affected area can help reduce inflammation and relieve pain. 2. Practice good posture: Make sure to maintain proper posture while sitting, standing, and sleeping to prevent further strain on
Type your message here...
Send

your neck muscles. 3. Gentle neck exercises: Gentle stretching and range of motion exercises for your neck can help improve flexibility and reduce stiffness. 4. Take over-the-counter pain medication: Non-prescription pain relievers such as acetaminophen or ibuprofen may help reduce neck pain and inflammation. 5. Consider seeing a healthcare provider: If your neck pain persists or worsens, it's a good idea to consult with a healthcare provider for a proper diagnosis and treatment plan. Remember to listen to your body and avoid activities that worsen your neck pain. If you have any concerns, please seek medical attention.

Type your message here... Send