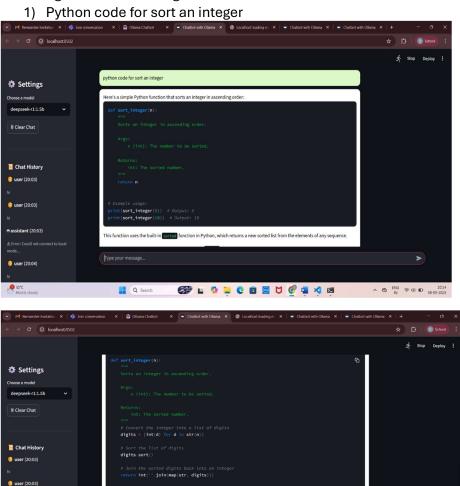
UI INTERFACE

0 user (20:04)

Checking Ollama is working



This function first converts the input number to a list of digits, sorts the list, and then joins it back into an integer

2) Code line by line explain

```
# Chat input if prompt := st.chat_input("Type your message here..."): st.session_state.messages.append({"role": "user", "content":
prompt) with stichat message("user"); st markdown(prompt)
 # Send to Ollama API with selected model
 response = requests.post(
      "http://localhost:11434/api/chat",
      json={
          "model": selected_model, # 
ightharpoonup dynamic model choice
          "messages": [{"role": m["role"], "content": m["content"]} for m in st.session_state.messages]
          "stream": False
 if response.status_code == 200:
     bot_reply = response.json()["message"]["content"]
 else:
      bot_reply = "Error: " + response.text
 st.session_state.messages.append({"role": "assistant", "content": bot_reply})
 with st.chat message("assistant"):
      st.markdown(bot_reply)
explain this code line by line
```

Here's a line-by-line explanation of the code:

```
# Chat input prompt (using `st.chat_input`)
if prompt := st.chat_input("Type your message here..."):
```

- This line prompts the user to type their message using the st.chat_input() function from the Streamlit library.
- The symbol is used to unpack a value of any type into a single variable. In this case, it's assigning the result of st.chat_input("Type your message here...") to the variable prompt.
- The ?: is not actually needed in this case, but it was included for clarity.

```
st.session_state.messages.append({"role": "user", "content": prompt})
```

- This line appends a new dictionary to the messages list in the user's session state.
- The dictionary contains two key-value pairs: "role" with value "user" and "content" with value prompt
- The st.session_state.messages.append() function creates or updates a new message in the session state. It expects a dictionary as its first argument, which will be used to store the message data.

```
with st.chat_message("user");
    st.markdown(prompt)
```

Using deepseek r1:1:5b mod

