

Chatbot program:

```
def chatbot():

    print("Chatbot: Hello! I'm your chatbot. Type 'bye' to end the chat.")

    while True:

        user_input = input("You: ")

        # Check for exit condition

        if "bye" in user_input.lower():

            print("Chatbot: Goodbye! Have a great day!")

            break

        # Respond based on user input

        elif "hi" in user_input.lower() or "hello" in user_input.lower():

            print("Chatbot: Hello! How can I assist you today?")

        elif "how are you" in user_input.lower():

            print("Chatbot: I'm doing well, thank you! How about you?")

        elif "your name" in user_input.lower():

            print("Chatbot: I'm a chatbot. I don't have a personal name, but you can call me 'Bot'.")

        else:

            print("Chatbot: Sorry, I didn't understand that. Can you ask something else?")

# Start the chatbot

if __name__ == "__main__":

    chatbot()
```

OUTPUT:

Hello! I'm your simple chatbot. Type 'exit' to end the conversation.

You: hello

Chatbot: Hello there! How can I assist you?

You: how are you

Chatbot: I'm just a bot, but I'm doing well! How about you?

You: what's your name

Chatbot: I am a chatbot created by a Python programmer!

You: bye

Chatbot: Bye! Take care!