import openai

# Set your OpenAI API key

openai.api\_key = "your-api-key-here"

def chatbot(prompt):

"""Communicates with the OpenAI API and returns the response."""

try:

response = openai.ChatCompletion.create(

model="gpt-3.5-turbo", # or 'gpt-4' if you have access

messages=[{"role": "system", "content": "You are a helpful assistant."},

{"role": "user", "content": prompt}]

)

# Extract and return the chatbot's reply

return response.choices[0].message["content"].strip()

except Exception as e:

return f"Error: {str(e)}"

# Chat loop

print("Chatbot: Hello! Type 'quit' to end the chat.")

while True:

user\_input = input("You: ")

if user\_input.lower() == "quit":

print("Chatbot: Goodbye!")

break

reply = chatbot(user\_input)

print(f"Chatbot: {reply}")