# Define a dictionary of predefined rules and responses

responses = {

"hello": "Hello! How can I help you today?",

"how are you": "I'm just a chatbot, but I'm doing great!",

"what's your name": "I'm just a computer program, so I don't have a name.",

"bye": "Goodbye! Have a fantastic day.",

"joke": "Why did the computer keep freezing? Because it left its Windows open!",

"tell me a joke": "Sure! Why don't scientists trust atoms? Because they make up everything!",

"serious": "Of course! Please go ahead and ask your serious question.",

"who are you": "I'm a friendly chatbot here to assist you.",

"how old are you": "I'm ageless, just like the internet.",

"where are you from": "I exist in the digital realm, so I don't have a physical location.",

"thank you": "You're welcome! If you have more questions, feel free to ask.",

"help": "I'm here to help. What do you need assistance with?",

"who won the last world cup": "The last World Cup was won by France in 2018.",

"what's the weather like today": "I'm sorry, I can't provide real-time weather information. You can check a weather website or app for that.",

"what is the meaning of life": "The meaning of life is a philosophical question that doesn't have a single answer. It varies from person to person.",

"tell me a riddle": "Sure! What has keys but can't open locks? A piano!",

"do you have any siblings": "No, I'm an only child, so to speak.",

"what's the time": "I don't have access to real-time data, so I can't tell you the current time. Please check your clock or device.",

"tell me a fun fact": "Sure! Honey never spoils. Archaeologists have found pots of honey in ancient Egyptian tombs that are over 3,000 years old and still perfectly edible.",

"can you dance": "I'm afraid I can't dance, but I can tell you about dancing if you'd like!",

"sing me a song": "I'm better at chatting than singing, but here's a line: 'I'm a chatbot, not a pop star.'",

"what's your favorite color": "I don't have preferences, but I hear blue is a nice color.",

"what's your favorite food": "I don't eat, but I've heard good things about pizza.",

"who's your creator": "I was created by OpenAI using the GPT-3.5 architecture.",

"tell me a science fact": "Sure! The human brain has the capacity to store approximately 2.5 petabytes of information, equivalent to three million hours of TV shows.",

"what's the meaning of AI": "AI stands for Artificial Intelligence, which refers to the development of computer systems capable of performing tasks that typically require human intelligence, such as learning, problem-solving, and decision-making.",

"can you solve math problems": "Yes, I can help you with math problems. Just provide the equation, and I'll do my best to assist.",

"are you a robot": "I'm not a physical robot, but a program designed to understand and respond to text input.",

"what's the capital of France": "The capital of France is Paris.",

"what's the tallest mountain in the world": "The tallest mountain in the world is Mount Everest, located in the Himalayas.",

"how can I learn programming": "Learning programming is a great idea! You can start by choosing a programming language and finding online tutorials and courses.",

"what's the meaning of 'carpe diem'": "'Carpe diem' is a Latin phrase that means 'seize the day' or 'make the most of the present moment.'",

"tell me a travel tip": "When traveling, make digital copies of important documents like passports and store them securely in the cloud in case of loss or theft.",

"what's your favorite movie": "I don't watch movies, but 'The Shawshank Redemption' is a popular choice among humans.",

"do you believe in aliens": "I don't have beliefs or opinions, but the existence of extraterrestrial life is a subject of scientific exploration and speculation.",

"who won the last Super Bowl": "I don't have real-time sports data, but you can check the latest Super Bowl winner on a sports news website.",

"how can I improve my productivity": "To improve productivity, consider time management techniques, setting goals, and minimizing distractions.",

"tell me a book recommendation": "One popular book is 'To Kill a Mockingbird' by Harper Lee. It's a classic novel with a powerful message.",

"what's the largest desert in the world": "The largest desert in the world is the Antarctic Desert.",

"what's the speed of light": "The speed of light in a vacuum is approximately 299,792,458 meters per second.",

"what's the difference between weather and climate": "Weather refers to short-term atmospheric conditions, while climate is the long-term average of weather patterns in a specific region."

}

# Function to get the response based on user input

def get\_response(user\_input: object) -> object:

user\_input = user\_input.lower() # Convert input to lowercase for case insensitivity

# Check for specific user inputs

if user\_input in responses:

return responses[user\_input]

elif "help" in user\_input:

return "I'm here to help. What do you need assistance with?"

else:

return responses["default"]

# Main chat loop

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

while True:

user\_input = input("You: ")

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

print("Chatbot: Goodbye!")

break

response = get\_response(user\_input)

print("Chatbot:", response)