**PROJECT CODE FILE**:

pip install ibm-watson import json

from ibm\_watson import AssistantV2

from ibm\_cloud\_sdk\_core.authenticators import IAMAuthenticator

**# Set up your IAM API Key and assistant ID** api\_key = "YOUR\_IBM\_API\_KEY" assistant\_id = "YOUR\_ASSISTANT\_ID"

# # Create an IAM authenticator

authenticator = IAMAuthenticator(api\_key)

# # Create an instance of Assistant

assistant = AssistantV2( version="2021-06-14", authenticator=authenticator

)

# # Set the Watson Assistant service URL (e.g., "https://api.us- south.assistant.watson.cloud.ibm.com")

assistant.set\_service\_url("YOUR\_SERVICE\_URL")

# # Function to send a message to the assistant

def send\_message(message): response = assistant.message(

assistant\_id=assistant\_id,

session\_id=session\_id, input={

'message\_type': 'text', 'text': message

}

).get\_result() return response

# # Create a session

session\_id = assistant.create\_session(assistant\_id=assistant\_id).get\_result()['session\_id']

# # Main interaction loop

while True:

user\_input = input("You: ")

if user\_input.lower() == 'exit': break

response = send\_message(user\_input)

assistant\_response = response['output']['generic'][0]['text'] print("Bot: " + assistant\_response)

# # Delete the session

assistant.delete\_session(assistant\_id=assistant\_id, session\_id=session\_id)