

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)
```