

Greeting AI Agent

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Greeting AI Agent

Abstract

- ✓ This project implements a simple Greeting AI Agent using Python.
- ✓ It interacts with the user, answers basic questions, and demonstrates AI-like behavior using conditional logic.
- ✓ The project is beginner-friendly and helps understand Python programming, input/output handling, and decision-making concepts.

Introduction

- ✓ Artificial Intelligence (AI) is a technology that enables machines to think and act like humans.
- ✓ A Greeting AI Agent is a simple program that interacts with users by responding to questions and greetings politely.
- ✓ This project demonstrates a beginner-level AI agent using **Python 3.14**.

Tools and Technologies Used

- **Programming Language:** Python 3.14
- **IDE / Editor:** Visual Studio Code (VS Code)
- **Libraries Used:** datetime
- **Operating System:** Windows Laptop

Problem Statement

- Many beginners who learn Python write programs that only display output on the screen.
- These programs do not interact with the user.
- To learn programming better, it is important to understand how a program:
 - 1) Takes input from the user
 - 2) Makes decisions using if–else statements
 - 3) Gives a proper reply based on the input
- There is a need for a simple interactive program that shows these concepts in an easy way.
- This project solves this problem by creating a basic **Greeting AI Agent using Python.**

Objectives

- To understand user input and output in Python
- To implement decision making using if-else conditions
- To create a simple AI-like conversational agent
- To improve logical thinking and programming skills
- To build confidence in creating interactive programs

Scope of the Project

- Suitable for beginners in Python
- Can be used for mini projects or academic submissions
- Can be extended to advanced AI concepts in the future
- Runs on any system with Python installed
- Useful for **college presentations and demonstrations**

System Architecture

User → Input → Python Program → Decision Logic → Output

Explanation:

1. User types a message
2. Program reads the input
3. Conditions check the input
4. Appropriate response is generated
5. Output is displayed to the user

Algorithm

1. Start
2. Display greeting message
3. Take input from the user
4. Check input using conditional statements
5. Respond based on predefined rules
6. Repeat steps 3–5 until input = exit
7. Stop

Code (Python)

```
print("== GREETING AI AGENT ==")
print("Type 'exit' to stop the program")
print("Agent: Hello! Welcome. How can I help you today?")

while True:
    user_input = input("\nYou: ").lower()

    if user_input == "exit":
        print("Agent: Thank you for chatting with me. Goodbye!")
        break

    elif "hi" in user_input or "hello" in user_input:
        print("Agent: Hello! Nice to meet you!")

    elif "how are you" in user_input:
        print("Agent: I am fine. What about you?")

    elif "fine" in user_input or "good" in user_input:
        print("Agent: That's good!")

    elif "what is ai" in user_input or "define ai" in user_input:
        print("Agent: AI stands for Artificial Intelligence. It allows machines to think and act like humans.")
```

```
elif "what is greeting" in user_input:
    print("Agent: A greeting is a polite way of saying hello to someone.")

elif "your name" in user_input:
    print("Agent: My name is Greeting AI Agent.")

elif "who created you" in user_input:
    print("Agent: I was created using Python programming.")

elif "date" in user_input:
    from datetime import date
    print("Agent: Today's date is", date.today())

elif "time" in user_input:
    from datetime import datetime
    print("Agent: Current time is", datetime.now().strftime("%H:%M:%S"))

else:
    print("Agent: I am still learning. Please ask a simple basic question.")
```

Code Screenshot

```
greeting_ai.py
1 print("== GREETING AI AGENT ==")
2 print("Type 'exit' to stop the program")
3 print("Agent: Hello! Welcome. How can I help you today?")
4
5 while True:
6     user_input = input("\nYou: ").lower()
7
8     if user_input == "exit":
9         print("Agent: Thank you for chatting with me. Goodbye!")
10        break
11
12     elif "what is ai" in user_input or "define ai" in user_input:
13         print("Agent: AI stands for Artificial Intelligence. It allows machines to think and a")
14
15     elif "hi" in user_input or "hello" in user_input:
16         print("Agent: Hello! Nice to meet you!")
17
18     elif "how are you" in user_input:
19         print("Agent: I am fine. What about you?")
20
21     elif "fine" in user_input or "good" in user_input:
22         print("Agent: That's good!")
23
24     elif "what is greeting" in user_input:
25         print("Agent: A greeting is a polite way of saying hello to someone.")
26
27     elif "your name" in user_input:
28         print("Agent: My name is Greeting AI Agent.")
29
30     elif "who created you" in user_input or "creator" in user_input:
31         print("Agent: I was created using Python programming.")
32
33     elif "what are you doing" in user_input:
34         print("Agent: I am here to greet users and answer simple questions.")
35
36     elif "purpose" in user_input:
37
38     elif "help" in user_input:
39
40     elif "date" in user_input:
41         from datetime import date
42         print("Agent: Today's date is", date.today())
43
44     elif "time" in user_input:
45         from datetime import datetime
46         print("Agent: Current time is", datetime.now().strftime("%H:%M:%S"))
47
48     elif "weather" in user_input:
49
50     elif "study" in user_input:
51         print("Agent: Studying consistently leads to success!")
52
53     elif "thank" in user_input:
54         print("Agent: You are welcome!")
55
56     else:
57         print("Agent: I am still learning. Please ask a simple basic question.")
```

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```

Output Screenshot

The screenshot shows a terminal window titled 'python' with the following text:

```
PS C:\Users\agaly\Desktop\python> & C:/Users/agaly/AppData/Local/Python/pythoncore-3.14-64/python.exe c:/Users/agaly/Desktop/python/greeting_ai.py/greeting_ai.py
== GREETING AI AGENT ==
Type 'exit' to stop the program
Agent: Hello! Welcome. How can I help you today?
You: hii
Agent: Hello! Nice to meet you!
You: what is purpose of greeting ai agent
Agent: My purpose is to interact with users politely.
You: what's the time now
Agent: current time is 19:29:05
You: today's date
Agent: Today's date is 2026-01-17
You: what is the weather
Agent: I cannot access live weather yet.
You: who is prime minister
Agent: I am still learning. Please ask a simple basic question.
You: exit
Agent: Thank you for chatting with me. Goodbye!
```

The terminal window is part of a larger interface with a sidebar labeled 'CHAT' containing a message bubble icon and the text 'Build with Agent'. Below the terminal, there is a 'SUGGESTED ACTIONS' section with a button for 'Build Workspace'.

Conclusion

- The Greeting AI Agent project successfully demonstrates how Python can be used to build an interactive program.
- It helps beginners understand input handling, conditional logic, and basic AI concepts.
- Although the agent is simple, it forms a strong foundation for learning advanced AI and chatbot development.

Future Enhancements

- Add voice input and output
- Integrate real-time weather API
- Use machine learning for smarter replies
- Convert into a web or mobile application
- Store conversation history