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| **Ex no : 7** | **Develop a chatbot using ChatGPT API** |
| **Date :** |

**Aim**

To develop a chatbot using ChatGPT API.

**Basics of ChatGPT**

ChatGPT, which stands for Chat Generative Pre-trained Transformer, is a large language model-based chatbot developed by OpenAI and launched on November 30, 2022, which enables users to refine and steer a conversation towards a desired length, format, style, level of detail, and language. ChatGPT has an API interface, from which we can generate API key and use it for our own application for generating texts.

***# Link to generate the ChatGPT API Key*** *(Generate After logging into OpenAI)* [*https://platform.openai.com/account/api-keys*](https://platform.openai.com/account/api-keys)

Keep Your API Key in the below Json file format.

*{*

*"api\_key": "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"*

*}*

**Code**

**!**pip install -q openai

**import** json

**import** openai

**import** os

***# Link to generate the API Key*** *-* [*https://platform.openai.com/account/api-keys*](https://platform.openai.com/account/api-keys)

***# Note:keep api key in json file***

openai.api\_key = "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"

**with** open('GPT\_SECRET\_KEY.json') **as** f:

data **=** json**.**load(f)

openai**.**api\_key **=** data["api\_key"]

messages **=** [

*# system message first, it helps set the behavior of the assistant*

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

]

**while** **True**:

message **=** input("👨‍💻: ")

**if** message:

messages**.**append(

{"role": "user", "content": message},

)

chat\_completion **=** openai**.**ChatCompletion**.**create(

model**=**"gpt-3.5-turbo", messages**=**messages

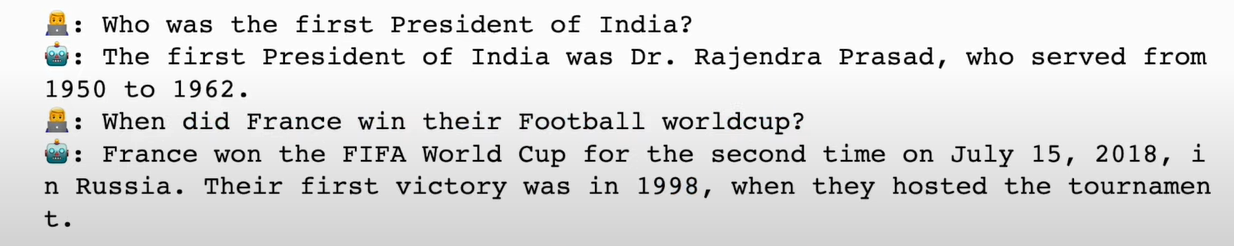
)

reply **=** chat\_completion**.**choices[0]**.**message**.**content

print(f" 👨‍💻: {reply}")

messages**.**append({"role": "assistant", "content": reply})

**OUTPUT**

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**RESULT**

Thus development of a chatbot using ChatGPT API has been carried out successfully.