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# Project: AI Chatbot using Python
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# Description: A simple rule-based chatbot that interacts with users.
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import datetime
import random


# Greeting responses
greetings = ["hello", "hi", "hey", "good morning", "good evening"]
greet_responses = ["Hello! How can I help you today?",
                   "Hi there! What can I do for you?",
                   "Hey! How's your day going?",
                   "Hi! Need any assistance?"]


# Common questions and their answers
responses = {
  "your name": "I'm ChatBot AI, your virtual assistant!",
  "how are you": "I'm doing great, thanks for asking! How about you?",
  "what is python": "Python is a high-level programming language known for its simplicity and
versatility.",
  "what is ai": "AI stands for Artificial Intelligence — machines that can think and learn like
humans.",
  "who created you": "I was created by Ashish Singh using Python!",
  "time": f"The current time is {datetime.datetime.now().strftime('%H:%M:%S')}.",
  "date": f"Today's date is {datetime.date.today()}",
  "bye": "Goodbye! Have a great day ahead!",
  "thank you": "You're welcome! Happy to help □  "
}


# Fallback responses
fallback = [
  "I'm not sure I understand that. Could you rephrase?",
  "Sorry, I'm still learning. Can you say it differently?",
  "Hmm... I'll need to learn more about that topic!"
]


def chatbot():
  print("□ ChatBot: Hello! I'm your AI assistant. Type 'bye' to end the chat.\n")


  while True:
    user_input = input("You: ").lower()


    # Exit condition
    if "bye" in user_input:
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            print("🤖 ChatBot:", responses["bye"])
            break


        # Greeting detection
        elif user_input in greetings:
            print("🤖 ChatBot:", random.choice(greet_responses))


        # Response matching
        else:
            found = False
            for key in responses.keys():
                if key in user_input:
                    print("🤖 ChatBot:", responses[key])
                    found = True
                    break


            if not found:
                print("🤖 ChatBot:", random.choice(fallback))


# Run chatbot
if __name__ == "__main__":
    chatbot()
```