*import* random

responses = {

    "greeting": ["Hello!", "Hi!", "Welcome!"],

    "farewell": ["Goodbye!", "See you later!", "Take care!"],

    "thanks": ["You're welcome!", "No problem!", "My pleasure!"],

    "how\_are\_you": [

        "I'm doing well, thank you!", "Great, thanks for asking!",

        "Feeling awesome!", "I'm good! Hope you are too!",

        "All systems operational!", "Doing fantastic, how about you?",

        "Can't complain, it's a good day!"

    ],

    "who\_are\_you": [

        "I'm your friendly AI assistant here to help!",

        "I'm a chatbot created to answer your questions and keep you company.",

        "Just your helpful virtual buddy, ready to chat!",

        "I'm an AI trained by OpenAI—kind of like your digital assistant!"

    ],

    "what\_is\_ai": [

        "AI stands for Artificial Intelligence—machines designed to mimic human intelligence.",

        "Artificial Intelligence involves creating systems that can perform tasks like learning, reasoning, and problem-solving.",

        "AI is a branch of computer science focused on making machines think and act like humans.",

        "It’s what allows machines to do things like recognize speech, make decisions, and even chat with you!"

    ],

    "ethics\_of\_ai": [

        "Ethics in AI is about ensuring technology is used fairly, responsibly, and safely.",

        "Key issues include bias, privacy, transparency, and accountability in AI systems.",

        "Ethical AI considers the impact of decisions made by machines on society and individuals.",

        "It's important to ensure AI helps humanity and doesn’t harm or discriminate against people."

    ],

    "need\_help": [

        "Of course! I'm here to help—just tell me what you need.",

        "Sure, what do you need help with?",

        "Absolutely! Ask me anything.",

        "I'm ready to assist you. Go ahead!"

    ],

    "default": [

        "I'm sorry, I didn't understand.",

        "Could you please rephrase?",

        "Hmm, not sure I got that. Can you say it differently?"

    ]

}

def generate\_response(*user\_input*):

    user\_input = user\_input.lower()

*if* "hello" in user\_input or "hi" in user\_input:

*return* random.choice(responses["greeting"])

*elif* "goodbye" in user\_input or "bye" in user\_input:

*return* random.choice(responses["farewell"])

*elif* "thank" in user\_input:

*return* random.choice(responses["thanks"])

*elif* "how are you" in user\_input:

*return* random.choice(responses["how\_are\_you"])

*elif* "need help" in user\_input or "can you help" in user\_input:

*return* random.choice(responses["need\_help"])

*elif* "who are you" in user\_input:

*return* random.choice(responses["who\_are\_you"])

*elif* "what is ai" in user\_input or "define ai" in user\_input or "explain ai" in user\_input:

*return* random.choice(responses["what\_is\_ai"])

*elif* "ethics" in user\_input and "ai" in user\_input:

*return* random.choice(responses["ethics\_of\_ai"])

*else*:

*return* random.choice(responses["default"])

*# Main interaction loop*

print("Prachi Karande (TACO22134)")

print("Type 'exit' or 'quit' to end the conversation.\n")

*while* True:

    user\_input = input("User: ")

*if* user\_input.lower() in ["exit", "quit"]:

        print("Bot: Goodbye! 👋")

*break*

    bot\_response = generate\_response(user\_input)

    print("Bot:", bot\_response)