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#Supervised machine learning model
#Funtion
def jarvis():
    # Responses to general questions or statements
    responses = {
        "hello": "Hello, My name is JARVIS. It stands for Just a Rather Very
Intelligent System.",
        "what is your name": "I am JARVIS, your personal assistant.",
        "who are you": "I am JARVIS, your personal assistant.",
        "how are you": "I'm doing great, thank you!",
        "what does jarvis stand for": "Just a Rather Very Intelligent System.",
        "who created you": "I was created by Yenuka to assist you with calculations
and provide information included in my database.",
        "what can you do": "I can perform calculations and provide information that
is included in my database.",
        "tell me a joke": "Why don't skeletons fight each other? Because they don't
have the guts to fight!",
        "what is the capital of france": "The capital of France is Paris.",
        "what is the largest planet": "The largest planet in our solar system is
Jupiter.",
        "what is the speed of light": "The speed of light is approximately 299,792
kilometers per second.",
        "how old is the earth": "The Earth is about 4.54 billion years old.",
        "what is python": "Python is a high-level, interpreted programming language
known for its simplicity and readability.",
        "who is albert einstein": "Albert Einstein was a theoretical physicist best
known for developing the theory of relativity.",
        "who is iron man": "An Avenger and the original creator of JARVIS and
EDITH.",
        "what is ai": "AI stands for Artificial Intelligence, the simulation of
human intelligence by machines.",
        "what is machine learning": "Machine learning is a subset of AI that enables
systems to learn and improve from experience without being explicitly programmed.",
        "what is the sun made of": "The Sun is mostly made of hydrogen and helium.",
        "what is the tallest mountain": "The tallest mountain on Earth is Mount
Everest, at 8,848 meters above sea level."
    }
    # Simple math facts for calculations
    math_facts = {
        "1+1": 2,
        "3+1": 4,
        "2+2": 4,
        "5*5": 25,
        "10/2": 5,
        "9-3": 6,
        "7*8": 56,
        "12+15": 27,
        "100-55": 45,
        "144/12": 12,
        "81*2": 162,
    }

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    "50/5": 10,
    "4*2": 8,
    "20+30": 50,
    "100-25": 75,
    "6*6": 36,
    "18/3": 6,
    "9+10": 19,
    "15-5": 10
}
print("Hello, I am JARVIS. How can I assist you today? (Lowercase inputs only)")
# Main interaction loop
while True:
    command = input("You: ")

    # Check if the command is in response and print the response
    if command in responses:
        print(f"JARVIS: {responses[command]}")

    # Check if the command is a request for a calculation
    elif "calculate" in command:
        expression = input("Tell me the calculation (No spaces): ")
        if expression in math_facts:
            print(f"JARVIS: The result is {math_facts[expression]}")
        else:
            print("JARVIS: I don't have the answer to that calculation. Try
another one.")

    # Exit command
    elif command == "bye" or command == "exit":
        print("JARVIS: Goodbye! Have a nice day!")
        break

    # If the command is not found in responses
    else:
        print("JARVIS: I'm sorry, I don't understand that command.")
# run the JARVIS function
if __name__ == "__main__":
    jarvis()

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