NANDHA ENGINEERING COLLEGE -AUTONOMOUS

TECH TRIVIA CHATBOT

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CODE:

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 # Importing necessary libraries

from IPython.display import display, clear_output

import random

import time


# Sample tech trivia questions

tech_trivia = [

   {

      "question": "What does 'HTTP' stand for?",

      "options": ["HyperText Transfer Protocol", "High Transfer Text Protocol", "Hyper Transfer Text Process", "Hypertext Transfer Product"],

      "answer": "HyperText Transfer Protocol"

   },

   {

      "question": "Who is known as the father of the computer?",

      "options": ["Alan Turing", "Charles Babbage", "John von Neumann", "Steve Jobs"],

      "answer": "Charles Babbage"

   },
```

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    {
        "question": "What is the name of the first web browser?",
        "options": ["Netscape Navigator", "Internet Explorer", "Mosaic", "WorldWideWeb"],
        "answer": "WorldWideWeb"
    },
    {
        "question": "Which company developed the Java programming language?",
        "options": ["Microsoft", "Sun Microsystems", "Apple", "IBM"],
        "answer": "Sun Microsystems"
    },
    {
        "question": "What is the most popular programming language in 2024?",
        "options": ["Python", "Java", "C++", "JavaScript"],
        "answer": "Python"
    }
]

# Function to ask a question
def ask_question(question_data):
    print("\n" + question_data["question"])
    for idx, option in enumerate(question_data["options"], start=1):
        print(f"{idx}. {option}")

    # Get user's answer
    try:
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            answer_idx = int(input("\nEnter the option number of your answer: ")) - 1
            if answer_idx < 0 or answer_idx >= len(question_data["options"]):
                print("Invalid option. Please try again.")
                return ask_question(question_data)
        except ValueError:
            print("Please enter a valid number.")
            return ask_question(question_data)

        # Check if the answer is correct
        user_answer = question_data["options"][answer_idx]
        if user_answer == question_data["answer"]:
            print("Correct! 🎉 ")
            return True
        else:
            print(f"Wrong! The correct answer was: {question_data['answer']}.")
            return False

# Main chatbot function
def tech_trivia_chatbot():
    print("Welcome to the Tech Trivia Chatbot! 🤖 ")
    print("Let's test your tech knowledge with a few questions!\n")
    score = 0

    # Shuffle questions for variety
    random.shuffle(tech_trivia)
```

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    for question_data in tech_trivia:
        clear_output(wait=True)
        print("Loading next question...")
        time.sleep(1.5)

        # Ask question and update score
        if ask_question(question_data):
            score += 1

        # Pause before the next question
        time.sleep(1)

    # Final score
    clear_output(wait=True)
    print(f"Quiz complete! Your final score is {score}/{len(tech_trivia)}.")
    if score == len(tech_trivia):
        print(" 🏆 Amazing! You got all questions right!")
    elif score >= len(tech_trivia) // 2:
        print("Great job! You have a good tech knowledge! 👍 ")
    else:
        print("Keep learning and try again! 📚 ")

# Run the chatbot
tech_trivia_chatbot()
```