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Project Name - Quiz Application

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# Define a dictionary to store quiz questions and answers
quiz_data = {
    "question1": {
        "question_text": "What is the capital of France?",
        "options": ["a) Paris", "b) London", "c) Berlin", "d) Madrid"],
        "correct_answer": "a"
    },
    "question2": {
        "question_text": "Which planet is known as the Red Planet?",
        "options": ["a) Mars", "b) Venus", "c) Jupiter", "d) Saturn"],
        "correct_answer": "a"
    },
    "question3": {
        "question_text": "What is 2 + 2?",
        "options": ["a) 3", "b) 4", "c) 5", "d) 6"],
        "correct_answer": "b"
    }
}

# Define a function to display questions and get user answers
def display_question(question_data):
    print(question_data["question_text"])
    for option in question_data["options"]:
        print(option)
    user_answer = input("Your answer (a, b, c, or d): ").lower()
    return user_answer

# Define a function to run the quiz
def run_quiz():
    score = 0
    for question_key, question_data in quiz_data.items():
        user_answer = display_question(question_data)
        if user_answer == question_data["correct_answer"]:
            print("Correct!\n")
            score += 1
        else:
            print(f"Wrong! The correct answer was: {question_data['correct_answer']}\n")

    print(f"Quiz complete! Your score: {score}/{len(quiz_data)}")

# Main program
if __name__ == "__main__":
    print("Welcome to the Quiz Application!")
    user_name = input("Enter your name: ")
    print(f"Hello, {user_name}!\n")

    run_quiz()

    Welcome to the Quiz Application!
    Enter your name: Sudhir
    Hello, Sudhir!

    What is the capital of France?
    a) Paris
    b) London
    c) Berlin
    d) Madrid
    Your answer (a, b, c, or d): a
    Correct!

    Which planet is known as the Red Planet?
    a) Mars
    b) Venus
    c) Jupiter
    d) Saturn
    Your answer (a, b, c, or d): b
    Wrong! The correct answer was: a

    What is 2 + 2?
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- a) 3
- b) 4
- c) 5
- d) 6

Your answer (a, b, c, or d): 4

Wrong! The correct answer was: b

Quiz complete! Your score: 1/3