

CODEWAY

Task-2:- QUIZ GAME

Develop a quiz game that asks users multiple-choice or fill-in-the-blank questions on a specific topic. The game should keep track of scores, provide feedback on correct/incorrect answers, and offer a variety of questions to make it challenging and engaging.


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In [1]: import random

class QuizGame:
    def __init__(self):
        self.questions = [
            {"question": "What is the capital of France?", "choices": ["A.",
            {"question": "Which planet is known as the Red Planet?", "choic
            {"question": "What is the largest mammal in the world?", "choic
            # Add more questions as needed
        ]
        self.score = 0

    def display_welcome_message(self):
        print(".....Welcome to the Quiz Game!.....")
        print("Answer the following questions and test your knowledge.")

    def display_question(self, q):
        print(q["question"])
        for choice in q["choices"]:
            print(choice)
        user_answer = input("Your answer: ").upper()
        return user_answer

    def evaluate_answer(self, user_answer, correct_answer):
        if user_answer == correct_answer:
            print("Correct!")
            self.score += 1
        else:
            print(f"Incorrect! The correct answer is {correct_answer}.")

    def play_game(self):
        self.display_welcome_message()
        random.shuffle(self.questions)

        for question in self.questions:
            user_answer = self.display_question(question)
            self.evaluate_answer(user_answer, question["answer"])

        self.display_final_results()

    def display_final_results(self):
        print(f"Your final score is {self.score}/{len(self.questions)}.")

    def play_again(self):
        play_again_input = input("Do you want to play again? (yes/no): ").l
        return play_again_input == "yes"

# Main Program
if __name__ == "__main__":
    game = QuizGame()

    while True:
        game.play_game()
        if not game.play_again():
            break

print("Thanks for playing!!! Goodbye!!!")

```

```
.....Welcome to the Quiz Game!.....  
Answer the following questions and test your knowledge.  
Which planet is known as the Red Planet?  
A. Venus  
B. Mars  
C. Jupiter  
Your answer: a  
Incorrect! The correct answer is B.  
What is the largest mammal in the world?  
A. Elephant  
B. Blue Whale  
C. Giraffe  
Your answer: b  
Correct!  
What is the capital of France?  
A. Paris  
B. Rome  
C. Berlin  
Your answer: a  
Correct!  
Your final score is 2/3.  
Do you want to play again? (yes/no): no  
Thanks for playing!!! Goodbye!!!
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