JULY 9, 2024

PYTHON QUIZ GAME

SUBMITTED BY-PRISHA D

CODE:

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questions = {
  "What is the capital of France?": {
    "options": ["Paris", "Berlin", "London", "Madrid"],
    "answer": "Paris"
  },
  "Who is the president of the USA?": {
    "options": ["Joe Biden", "Donald Trump", "Barack Obama", "George Washington"],
    "answer": "Joe Biden"
  },
  "What is the capital of England?": {
     "options": ["London", "Paris", "Berlin", "Rome"],
    "answer": "London"
  },
  "What is the largest planet in our solar system?": {
    "options": ["Earth", "Saturn", "Jupiter", "Uranus"],
    "answer": "Jupiter"
  },
  "Which of the following is NOT one of the Great Lakes?": {
     "options": ["Lake Michigan", "Lake Huron", "Lake Ontario", "Lake Tahoe"],
    "answer": "Lake Tahoe"
  },
  "What is the chemical symbol for gold?": {
    "options": ["Ag", "Au", "Hg", "Pb"],
    "answer": "Au"
  },
  "What is the smallest country in the world?": {
    "options": ["Vatican City", "Monaco", "Nauru", "Tuvalu"],
    "answer": "Vatican City"
  },
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"What is the largest living species of lizard?": {
     "options": ["Komodo dragon", "Saltwater crocodile", "Black mamba", "Green
anaconda"],
     "answer": "Komodo dragon"
  }
}
# Function to display the rules
def display_rules():
  print("Welcome to the Quiz Game!")
  print("Here are the rules:")
  print("1. Answer the questions with the corresponding number.")
  print("2. You will earn 10 points for each correct answer.")
  print("3. If you answer 3 questions correctly in a row, you will earn a bonus of 50 points!")
  print("4. The game will end after all questions have been answered.")
  print("5. Your final score will be displayed at the end of the game.")
  input("Press Enter to start the game...")
# Function to display the questions and options
def display_question(question_text, options):
  print(question_text)
  for i, option in enumerate(options, 1):
     print(f"{i}. {option}")
# Function to handle user input and validate the answer
def get_user_answer(question):
  display_question(question["text"], question["options"])
  while True:
     user_input = input("Enter your answer (1-{}): ".format(len(question["options"])))
     if user_input.isdigit() and 1 <= int(user_input) <= len(question["options"]):
       return question["options"][int(user_input) - 1]
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else:
       print("Invalid input. Please enter a number between 1 and
{}.".format(len(question["options"])))
# Function to check the user's answer
def check_answer(user_answer, correct_answer):
  if user_answer.strip().lower() == correct_answer.strip().lower():
     print("Correct!")
    return True
  else:
     print("Incorrect. The correct answer is '{ }'.".format(correct_answer))
     return False
# Function to calculate the user's final score
def calculate_score(correct_count, bonus):
  score = correct_count * 10
  if bonus:
     score += 50
  print("\nYour final score is: {}".format(score))
# Main function to run the quiz
def main():
  display_rules()
  correct\_count = 0
  correct_in_a_row = 0
  bonus = False
  for question_text, question_data in questions.items():
     question = {"text": question_text, "options": question_data["options"]}
     user_answer = get_user_answer(question)
     if check_answer(user_answer, question_data["answer"]):
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correct_count += 1
correct_in_a_row += 1
if correct_in_a_row == 3:
    bonus = True
else:
    correct_in_a_row = 0

calculate_score(correct_count, bonus)

# Run the main function
if _name_ == "_main_":
    main()
```

SCREENSHOTS OF OUTPUT:









