CODESOFT Task 5

```
Code:
import random
class Quiz:
  def __init__(self, questions):
    self.questions = questions
    self.score = 0
  def display_welcome_message(self):
    print("Welcome to the Quiz Game!")
    print("You will be presented with a series of questions.")
    print("Choose the correct answer for each question.")
    print("Let's begin!\n")
  def present_quiz_questions(self):
    random.shuffle(self.questions)
    for idx, question in enumerate(self.questions, start=1):
      print(f"Question {idx}: {question['text']}")
      if 'choices' in question:
         for choice_idx, choice in enumerate(question['choices'], start=1):
           print(f"{choice_idx}. {choice}")
      user_answer = input("Your answer: ").strip().lower()
      self.evaluate_user_answer(question, user_answer)
      print()
  def evaluate_user_answer(self, question, user_answer):
    if 'answer' in question:
      correct_answer = question['answer'].lower()
      if user_answer == correct_answer:
         print("Correct!")
         self.score += 1
      else:
```

print("Incorrect.")

```
print(f"The correct answer is: {correct_answer}")
    elif 'fill_in_blank' in question:
       correct_answer = question['fill_in_blank'].lower()
       if user_answer == correct_answer:
         print("Correct!")
         self.score += 1
       else:
         print("Incorrect.")
         print(f"The correct answer is: {correct_answer}")
  def display_final_results(self):
    total_questions = len(self.questions)
    print(f"\nQuiz completed! Your final score is: {self.score}/{total_questions}")
    percentage = (self.score / total_questions) * 100
    if percentage >= 70:
       print("Congratulations! You passed the quiz!")
    else:
       print("Sorry, you did not pass the quiz. Better luck next time!")
  def play_again(self):
    answer = input("Do you want to play again? (yes/no): ").strip().lower()
    return answer == 'yes'
# Sample quiz questions
questions = [
    'text': 'What is the capital of India?',
    'choices': ['A. Tamilnadu', 'B. Delhi', 'C. Mumbai'],
    'answer': 'B'
  },
    'text': 'Who wrote "Romeo and Juliet"?',
    'fill_in_blank': 'Shakespeare'
```

```
},
  {
    'text': 'Which planet is known as the Red Planet?',
    'choices': ['A. Venus', 'B. Mars', 'C. Jupiter'],
    'answer': 'B'
  }
]
def main():
  while True:
    quiz = Quiz(questions)
    quiz.display_welcome_message()
    quiz.present_quiz_questions()
    quiz.display_final_results()
    if not quiz.play_again():
       print("Thank you for playing!")
       break
if __name__ == "__main__":
  main()
```