

Core Python Assessment Test 2

1. Write a program to demonstrate the Quiz Game

Code:

```
class QuizGame:
    def __init__(self):
        self.questions = {}

    def display_menu(self):
        print("*****Quiz Game Menu*****")
        print("1. Add Question")
        print("2. View Questions")
        print("3. Delete Question")
        print("4. Exit")

    def add_question(self):
        question_text = input("Enter the question: ")
        options = [input(f"Enter option {i + 1}: ") for i in range(2)]
        correct_option = input("Enter the correct option number: ")

        question_id = len(self.questions) + 1
        self.questions[question_id] = {
            'question': question_text,
            'options': options,
            'correct_option': correct_option
        }

        print("Question added successfully!")

    def view_questions(self):
        for question_id, question_details in self.questions.items():
            print(f"\nQuestion {question_id}:")
            print(f"Question: {question_details['question']}")
            print("Options:")
            for i, option in enumerate(question_details['options'], start=1):
```

```
        print(f" {i}. {option}")
    print(f"Correct Option: {question_details['correct_option']}")
```

```
def delete_question(self):
    question_id = int(input("Enter the question ID to delete: "))

    if question_id in self.questions:
        del self.questions[question_id]
        print("Question deleted successfully!")
    else:
        print("Invalid question ID. No question found.")
```

```
def save_to_log(self):
    with open('quiz_log.txt', 'a') as log_file:
        log_file.write(json.dumps(self.questions) + '\n')
    print("Log file updated!")
```

```
def welcome_screen():
    print("*****Welcome to Top Quiz Challenge!*****")
    print("Select your role:")
    print("1. Quiz Master")
    print("2. Quiz Cracker")
```

```
role_choice = input("Enter your role (1 or 2): ")
if role_choice == '1':
    print("Welcome, Quiz Master!")
    return 'Quiz Master'
elif role_choice == '2':
    print("Welcome, Quiz Cracker!")
    return 'Quiz Cracker'
else:
    print("Invalid choice. Please enter 1 or 2.")
    return welcome_screen()
```

```
def main():
    role = welcome_screen()
    quiz_game = QuizGame()
```

```
while True:
```

```

quiz_game.display_menu()
choice = input("Which operation you want to perform : ")

if choice == '1':
    quiz_game.add_question()
elif choice == '2':
    quiz_game.view_questions()
elif choice == '3':
    quiz_game.delete_question()
elif choice == '4':
    quiz_game.save_to_log()
    print(f"Exiting the Quiz Game. Goodbye, {role}!")
    break
else:
    print("Invalid choice. Please enter a number between 1 and 4.")

if __name__ == "__main__":
    main()

```

Output:

```

*****Welcome to Top Quiz Challenge*****!
Select your role:
1. Quiz Master
2. Quiz Cracker
Enter your role (1 or 2): 1
Welcome, Quiz Master!

```

- when user select option 1 then it will display following menu

```

*****Quiz Game Menu*****
1. Add Question
2. View Questions
3. Delete Question
4. Exit
Which operation you want to perform : 1
Enter the question: who is prime minister of india?
Enter option 1: Rahul gandhi
Enter option 2: Narendra modi
Enter the correct option number: 2
Question added successfully!

```

- Quiz Master can add details as follows:

```
*****Quiz Game Menu*****
1. Add Question
2. View Questions
3. Delete Question
4. Exit
Which operation you want to perform : 2

Question 1:
Question: who is prime minister of india?
Options:
    1. Rahul gandhi
    2. Narendra modi
Correct Option: 2

Question 2:
Question: Who developed c language
Options:
    1. Dennis M richie
    2. Andy Rubin
Correct Option: 1
*****Quiz Game Menu*****
```