class Quiz:

def \_\_init\_\_(self, questions):

self.questions = questions

self.score = 0

def display\_question(self, question):

print(question['question'])

for idx, option in enumerate(question['options'], start=1):

print(f"{idx}. {option}")

user\_answer = input("Your answer (enter the option number): ")

return int(user\_answer)

def check\_answer(self, question, user\_answer):

correct\_answer = question['answer']

if user\_answer == correct\_answer:

print("Correct!")

self.score += 1

else:

print("Incorrect. The correct answer is:", question['options'][correct\_answer - 1])

def run\_quiz(self):

for question in self.questions:

user\_answer = self.display\_question(question)

self.check\_answer(question, user\_answer)

print("Quiz completed!")

print("Your final score is:", self.score)

if \_\_name\_\_ == "\_\_main\_\_":

questions = [

{

'question': "What is the capital of France?",

'options': ["Paris", "London", "Berlin", "Rome"],

'answer': 1

},

{

'question': "Which planet is known as the Red Planet?",

'options': ["Venus", "Mars", "Jupiter", "Saturn"],

'answer': 2

},

{

'question': "Who wrote 'To Kill a Mockingbird'?",

'options': ["Harper Lee", "J.K. Rowling", "Stephen King", "Mark Twain"],

'answer': 1

}

]

quiz = Quiz(questions)

quiz.run\_quiz()