SOURCE CODE

import random

class Quiz:

def \_init\_(self, questions):

self.questions = questions

self.score = 0

def display\_question(self, question):

print(question['question'])

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

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

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

return int(user\_answer)

def play(self):

random.shuffle(self.questions)

for question in self.questions:

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

correct\_answer = question['correct\_option']

if user\_answer == correct\_answer:

self.score += 1

print(f"Correct! Your current score: {self.score}/{len(self.questions)}\n")

else:

print(f"Wrong! The correct answer is {correct\_answer}: {question['options'][correct\_answer - 1]}\n")

print(f"Quiz completed! Your final score: {self.score}/{len(self.questions)}")

# Sample quiz questions

questions = [

{

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

'options': ['Berlin', 'Madrid', 'Paris', 'Rome'],

'correct\_option': 3

},

{

'question': 'Which programming language is this program written in?',

'options': ['Java', 'Python', 'C++', 'JavaScript'],

'correct\_option': 2

},

{

'question': 'What is the largest mammal?',

'options': ['Elephant', 'Blue Whale', 'Giraffe', 'Dolphin'],

'correct\_option': 2

},

{

'question': 'How many continents are there?',

'options': ['5', '6', '7', '8'],

'correct\_option': 3

},

{

'question': 'What is the capital of Japan?',

'options': ['Beijing', 'Tokyo', 'Seoul', 'Bangkok'],

'correct\_option': 2

}

]

# Create a Quiz instance and start the game

quiz\_game = Quiz(questions)

quiz\_game.play()