class QuizGame:

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

self.questions = questions

self.score = 0

self.feedback = []

def ask\_question(self, question):

print("\n" + question["question"])

for option in question["options"]:

print(option)

while True:

user\_answer = input("Enter your answer (a, b, c, or d): ").strip().lower()

if user\_answer in ['a', 'b', 'c', 'd']:

break

else:

print("Invalid input. Please enter a, b, c, or d.")

if user\_answer == question["answer"]:

print("Correct!")

self.score += 1

else:

print(f"Incorrect! The correct answer is: {question['answer']}")

self.collect\_feedback(question)

def run\_quiz(self):

for question in self.questions:

self.ask\_question(question)

self.display\_score()

self.display\_feedback()

def display\_score(self):

print(f"\nYour final score is: {self.score} out of {len(self.questions)}")

def collect\_feedback(self, question):

print("\nWe would love to hear your feedback on this question!")

user\_feedback = input("Please provide your feedback (or press Enter to skip): ").strip()

if user\_feedback:

self.feedback.append({

"question": question["question"],

"feedback": user\_feedback

})

def display\_feedback(self):

if self.feedback:

print("\nThank you for your feedback! Here's what you said:")

for idx, feedback\_entry in enumerate(self.feedback, 1):

print(f"{idx}. Question: {feedback\_entry['question']}\n Feedback: {feedback\_entry['feedback']}")

else:

print("\nNo feedback provided.")

def main():

# List of questions with options and correct answer

questions = [

{

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

"options": ["a) Berlin", "b) Madrid", "c) Paris", "d) Rome"],

"answer": "c"

},

{

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

"options": ["a) Earth", "b) Mars", "c) Jupiter", "d) Venus"],

"answer": "b"

},

{

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

"options": ["a) Harper Lee", "b) J.K. Rowling", "c) Ernest Hemingway", "d) Mark Twain"],

"answer": "a"

}

]

# Create a QuizGame instance and run the quiz

quiz = QuizGame(questions)

quiz.run\_quiz()

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

main()

