**Quiz Program**

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**CODE:**

class Quiz:

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

self.questions = questions

self.score = 0

# Display a question and its options

def display\_question(self, question\_n):

question = self.questions[question\_n]['question']

options = self.questions[question\_n]['options']

print(f"\nQ{question\_n + 1}: {question}")

for i, option in enumerate(options, start=1):

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

return len(options)

# Checking if the user selected answer is correct or not

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

correct\_answer = self.questions[question\_n]['answer']

if user\_answer.lower() == correct\_answer.lower():

self.score += 1

print("Correct!")

else:

print(f"Wrong! The correct answer is: {correct\_answer}")

def conduct\_quiz(self):

n\_questions = len(self.questions)

for i in range(n\_questions):

n\_options = self.display\_question(i)

user\_input = input(f"Enter your answer (1-{n\_options}): ")

# Validating user input

while not user\_input.isdigit() or int(user\_input) not in range(1, n\_options + 1):

user\_input = input(f"Invalid input. Please enter a number between 1 and {n\_options}: ")

self.check\_answer(i, self.questions[i]['options'][int(user\_input) - 1])

# Display the final score

def show\_result(self):

print(f"\nQuiz completed!")

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

# Giving input data of questions,options and answers

quiz\_data = [

{

{"question":"How many primes are there between 1 and 10?",

"options":["2","3","4","1"],

"answer":"4"},

{"question":"What is 51-9?",

"options":["42","41","43","40"],

"answer":"42"},

"question":"who is the prime minister of Hyderabad?",

"options":["jagan","revanth","kcr","Chandrababu naidu"],

"answer":"revanth"}

]

# Creating a object named as Quiz with the above data provided

my\_quiz = Quiz(quiz\_data)

# Conducting the quiz

my\_quiz.conduct\_quiz()

# Displaying the result

my\_quiz.show\_result()