MICRO- IT INTERSHIP PROJECT-QUIT GAME

```
import time

# Sample questions database

quiz_data = {

   "Science": [

      {

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

         "options": ["Earth", "Mars", "Jupiter", "Venus"],

         "answer": "Mars"

      },

      {

         "question": "What gas do plants absorb from the atmosphere?",

         "options": ["Oxygen", "Carbon Dioxide", "Hydrogen", "Nitrogen"],

         "answer": "Carbon Dioxide"

      }

   ],

   "General Knowledge": [

      {

         "question": "Who wrote the national anthem of India?",

         "options": ["Rabindranath Tagore", "Mahatma Gandhi", "Subhash Chandra
Bose", "Jawaharlal Nehru"],

         "answer": "Rabindranath Tagore"
```

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        },
        {
            "question": "Which is the longest river in the world?",
            "options": ["Nile", "Amazon", "Ganga", "Yangtze"],
            "answer": "Nile"
        }
    ]
}

def run_quiz(quiz, timer_enabled=False, time_limit=10):
    score = 0
    user_answers = []

    for idx, item in enumerate(quiz, start=1):
        print(f"\nQuestion {idx}: {item['question']}")
        for i, opt in enumerate(item['options'], 1):
            print(f"  {i}. {opt}")

        if timer_enabled:
            print(f"You have {time_limit} seconds to answer.")
            start_time = time.time()

        try:
            answer = int(input("Enter option number: "))
            if answer < 1 or answer > len(item['options']):
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            raise ValueError("Invalid option.")
        except ValueError:
            print("Invalid input! Skipping question.")
            user_answers.append({"question": item['question'], "your_answer": "Invalid", "correct_answer": item['answer']})
            continue

        if timer_enabled and (time.time() - start_time > time_limit):
            print("⏰ Time's up!")
            user_answers.append({"question": item['question'], "your_answer": "Timeout", "correct_answer": item['answer']})
            continue

        chosen = item['options'][answer - 1]
        is_correct = chosen == item['answer']
        if is_correct:
            print("✅ Correct!")
            score += 1
        else:
            print("❌ Wrong!")

        user_answers.append({
            "question": item['question'],
            "your_answer": chosen,
            "correct_answer": item['answer']
```

```
            })

        print("\n🎯 Quiz Completed!")
        print(f"Your Score: {score}/{len(quiz)}")

        print("\n📋 Review of your answers:")
        for entry in user_answers:
            print(f"Q: {entry['question']}")
            print(f"   Your Answer: {entry['your_answer']}")
            print(f"   Correct Answer: {entry['correct_answer']}")
            print()

    def main():
        print("📚 Welcome to the Quiz Game!")
        print("Available Categories:")
        for i, category in enumerate(quiz_data.keys(), 1):
            print(f"{i}. {category}")

        try:
            choice = int(input("Select a category by number: "))
            category = list(quiz_data.keys())[choice - 1]
        except:
            print("Invalid category. Exiting.")
            return
```

```
    timer_choice = input("Enable timer for each question? (yes/no): ").strip().lower()
== "yes"

    run_quiz(quiz_data[category], timer_enabled=timer_choice)


if _name_ == "_main_":

    main()
```

OUTPUT:

Welcome to the Quiz Game!

Available Categories:

1. Science

2. General Knowledge

Select a category by number: 1

Enable timer for each question? (yes/no): yes

Question 1: What planet is known as the Red Planet?

1. Earth

2. Mars

3. Jupiter

4. Venus

You have 10 seconds to answer.

Enter option number: 2

⏰ Time's up!

Question 2: What gas do plants absorb from the atmosphere?

1. Oxygen
2. Carbon Dioxide
3. Hydrogen
4. Nitrogen

You have 10 seconds to answer.

Enter option number: 1

❌ Wrong!

🎯 Quiz Completed!

Your Score: 0/2

📋 Review of your answers:

Q: What planet is known as the Red Planet?

Your Answer: Timeout

Correct Answer: Mars

Q: What gas do plants absorb from the atmosphere?

Your Answer: Oxygen

Correct Answer: Carbon Dioxide