

Quiz Website

Quiz application in Python involves several components: the quiz questions, user interaction, and results calculation. Depending on my intended platform, I might create a text-based quiz, a command-line application, or a web-based quiz with a framework like Flask or Django.

Code:

```
# List of quiz questions
```

```
quiz_questions = [  
    {  
        "question": "What is the capital of France?",  
        "options": ["Paris", "London", "Berlin", "Rome"],  
        "correct": "Paris"  
    },  
    {  
        "question": "Which planet is known as the Red Planet?",  
        "options": ["Earth", "Mars", "Venus", "Jupiter"],  
        "correct": "Mars"  
    },  
    {  
        "question": "What is the largest mammal?",  
        "options": ["Elephant", "Blue Whale", "Giraffe", "Shark"],  
        "correct": "Blue Whale"  
    }  
]
```

```
# Function to run the quiz
```

```
def run_quiz(questions):  
    correct_answers = 0  
    total_questions = len(questions)  
  
    # Loop through each question  
    for i, question in enumerate(questions):  
        print(f"Question {i + 1}: {question['question']}")
```

```

# Display the options

for j, option in enumerate(question['options']):
    print(f"{j + 1}. {option}")

# Get the user's answer

answer = int(input("Choose an option (1-4): ")) - 1
selected_option = question['options'][answer]

# Check if the answer is correct

if selected_option == question['correct']:
    print("Correct!\n")
    correct_answers += 1
else:
    print(f"Incorrect. The correct answer was: {question['correct']}\n")

# Calculate the quiz score

score_percentage = (correct_answers / total_questions) * 100

print(f"Quiz completed! You scored {correct_answers} out of {total_questions} ({score_percentage:.2f}%).")

# Run the quiz with the list of questions

run_quiz(quiz_questions)

Question 1: What is the capital of France?

1. Paris
2. London
3. Berlin
4. Rome

Choose an option (1-4): 1

Correct!

Question 2: Which planet is known as the Red Planet?

```

1. Earth
2. Mars
3. Venus
4. Jupiter

Choose an option (1-4): 3

Incorrect. The correct answer was: Mars

Question 3: What is the largest mammal?

1. Elephant
2. Blue Whale
3. Giraffe
4. Shark

Choose an option (1-4): 2

Correct!

Quiz completed! You scored 2 out of 3 (66.67%).