

Explanation

1. **ask_question() Function:** This function takes a question, the correct answer, and optionally a list of answer choices. It displays the question and options, gets the user's response, and checks if it's correct.
2. **quiz() Function:** This function contains a list of questions, answers, and options. It loops through each question, calls the ask_question() function to get the user's answer, and keeps track of the score.
3. **Questions and Answers:** The questions are stored in a list of dictionaries. Each dictionary contains the question text, the correct answer, and a list of possible answer choices.
4. **Score:** At the end of the quiz, the user's score is displayed.

INPUT

```
# Function to ask questions and check answers
```

```
def ask_question(question, answer,  
options=None):
```

```
    print(question)
```

```
    if options:
```

```
        for i, option in enumerate(options, 1):
```

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

```
        user_answer = input("Your answer:  
").strip().lower()
```

```
        return user_answer == answer.lower()
```

```
# Main quiz function
```

```
def quiz():
```

```
    score = 0
```

```
    # List of questions, answers, and options (if  
    needed)
```

```
    questions = [
```



```
{  
  "question": "What is the capital of  
France?",  
  "answer": "paris",  
  "options": ["Berlin", "Madrid", "Paris",  
"Rome"]  
},  
{  
  "question": "Who wrote 'Romeo and  
Juliet'?",  
  "answer": "shakespeare",  
  "options": ["Dickens", "Shakespeare",  
"Hemingway", "Austen"]  
},  
{  
  "question": "What is the chemical symbol  
for water?",  
  "answer": "h2o",  
  "options": ["CO2", "O2", "H2O", "N2"]  
}
```

```
    },  
    {  
        "question": "Which planet is known as the  
Red Planet?",  
        "answer": "mars",  
        "options": ["Earth", "Mars", "Jupiter",  
"Saturn"]  
    },  
    {  
        "question": "How many continents are  
there?",  
        "answer": "7",  
        "options": ["5", "6", "7", "8"]  
    }  
]
```

```
# Loop through each question  
for q in questions:  
    question = q['question']
```

```
    answer = q['answer']
    options = q['options']

    if ask_question(question, answer, options):
        print("Correct!\n")
        score += 1
    else:
        print(f"Wrong! The correct answer was:
{answer}\n")

# Final score

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

# Start the quiz

if __name__ == "__main__":
    print("Welcome to the Quiz!\n")
    quiz()
```


OUTPUT

Welcome to the Quiz!

What is the capital of France?

- 1. Berlin**
- 2. Madrid**
- 3. Paris**
- 4. Rome**

Your answer: paris

Correct!

Who wrote 'Romeo and Juliet'?

- 1. Dickens**
- 2. Shakespeare**
- 3. Hemingway**
- 4. Austen**

Your answer: shakespeare

Correct!

What is the chemical symbol for water?

1. CO₂

2. O₂

3. H₂O

4. N₂

Your answer: h₂o

Correct!

Which planet is known as the Red Planet?

1. Earth

2. Mars

3. Jupiter

4. Saturn

Your answer: mars

Correct!

PROJECT REPORT

GENERAL KNOWLEDGE QUIZ

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

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