

Python Quiz Game using tuples

Practise exercise to reinforce the use of **variables** and **collections** “Lists, Sets and Tuples”. We will need a **tuple** of questions, a **2D tuple** of options and a **tuple** of answers. We will need a **list** of guesses (which will be appended to the **list**), a **score variable** and a question number **variable**.

```
questions = ("How many elements in the periodic table?: ",
             "Which animal lays the largest eggs?: ",
             "Most abundant gas in Earth's atmosphere?: ",
             "How many bones are in the human body?: ",
             "Hottest planet in the solar system is?: ")

options = (("A. 116", "B. 117", "C. 118", "D. 119"),
           ("A. Whale", "B. Crocodile", "C. Elephant", "D.
Ostrich"),
           ("A. Nitrogen", "B. Oxygen", "C. Carbon-Dioxide",
"D. Hydrogen"),
           ("A. 206", "B. 207", "C. 208", "D. 209"),
           ("A. Mercury", "B. Venus", "C. Earth", "D. Mars"))

answers = ("C", "D", "A", "A", "B")
guesses = []
score = 0
question_num = 0

for question in questions:
    print("-----")
    print(question)
    for option in options[question_num]:
        print(option)

    guess = input("Enter (A, B, C, D): ").upper()
    guesses.append(guess)
    if guess == answers[question_num]:
        score += 1
        print("CORRECT!")
    else:
        print("INCORRECT!")
        print(f"{answers[question_num]} is the correct
answer")
    question_num += 1
```

```
print("-----")
print("      RESULTS      ")
print("-----")

print("answers: ", end="")
for answer in answers:
    print(answer, end=" ")
print()

print("guesses: ", end="")
for guess in guesses:
    print(guess, end=" ")
print()

score = int(score / len(questions) * 100)
print(f"Your score is: {score}%")
```