Project 1 – Trivia Game

Time to make a Trivia Quiz! IRL, you would design quizzes to filter job applicants, weed out potential mates, or just plain have a chance to sit on the other side of the desk and make, rather than take, the quiz.

REQUIREMENTS:

1. Create your own quiz with **five or more questions**. You must ask questions that require:
    - **a number as an answer (e.g., What is 1+1?)**
    - **text (e.g. What is Harry Potter's last name?)**
    - **a selection (Which of these choices are correct? A, B, or C?)**

2. If you have the user enter non-numeric answers, think about and take care of the **different ways a user could enter a correct answer**. For example, if the answer is "a", would "A" also be acceptable?

3. **Let the user know if they get the question correct.** Print a message depending on the user's answer.

4. You need to **keep track of how many questions they get correct**.

5. At the end of the program **print the percentage of questions the user gets right**. (Calculate the percentage by using a formula at the end of the game.)

6. Additionally, at the end of the game, **let the user know how well they did**.
    If they got 2 or less, output "Better luck next time!".
    If they got 3 or 4, output "You were so close!".
    If they got 5, output "You are a trivia master!".
    (Or use whatever phrases you'd like.)

7. Make sure your **code is readable and easy to understand** . Use good **variable names**. Use **whitespace** effectively to help your code be readable (put related chunks of code together). Use **comments** to break up your code and explain what you are doing.

8. Make sure your **UE (User Experience) is as good as possible**! Appropriate spelling and grammar, clear instructions, clear output, etc. (And use colours to make it interesting if you wish!)

Sample Output:

Console   Shell

```
Welcome to Nerd Trivia

Question 1
What is the answer to life, the universe, and everything?
42
Correct!
Score:  1

Question 2
What is the greatest space show of all time?
a. Stargate
b. Firefly
c. Battlestar Galactica
b
Correct!
Score:  2

Question 3
What is Captain Kirk's middle name?
Tiberius
Correct!
Score:  3

Question 4
What year was the Original NES released?
1989
Incorrect! It was 1985.
Score:  3

Question 5
If I was in The Matrix I'd choose the blue pill. True/False
F
Correct!
Score:  4

Congratulations, you got 4 answers right for a score of 80%!
You were so close!
>
```

Marking Scheme

	Level 4	Level 3	Level 2	Level 1
Program Requirements	5 questions with various answer types. Score/percent/ message printed throughout and at end of game.	5 questions with various answer types. Missing score or message in 1 place.	Missing 1 question. Missing score or message in 1 place.	Missing 2 questions. Missing score or message in 2 places.
If-Statements	Proper if-else if-else chains used effectively and efficiently. Boolean operators used where appropriate.	Proper if-else if-else chains used effectively. Boolean operators used where appropriate.	Proper if-else if-else chains used somewhat effectively. Boolean operators used.	Proper if-else if-else chains used ineffectively. Boolean operators not used.
Proper Code Convention	Variable naming convention followed and consistent. Correct math operators, order of operations followed.	Variable naming convention followed. Correct math operators, order of operations followed.	Variable naming convention somewhat followed. Somewhat correct math operators, order of operations somewhat followed.	Variable naming convention not followed. Incorrect math operators, order of operations not followed.
Code Organization & Documentation	Comments used throughout for headings and/or explanations. Whitespace used to separate logical chunks of code.	Comments used throughout for organization. Whitespace used to separate logical chunks of code.	Comments somewhat used throughout for organization. Whitespace somewhat used to separate logical chunks of code.	Comments not used throughout. Whitespace not used to separate logical chunks of code.
User Experience	Professional polished output. User input variations accounted for.	Polished output. User input variations accounted for.	General output. User input variations somewhat accounted for.	Messy and/or disorganized output. No account taken for user input.