

Quiz 01

Due Sep 6 at 10pm**Points** 10**Questions** 6**Time Limit** None

Instructions

Answer the following questions in your own words. Do NOT simply cut and paste the information from the slides. You will receive a score of 0 if you copy the prose from the slides.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	82 minutes	10 out of 10

❗ Correct answers are hidden.

Score for this quiz: **10** out of 10

Submitted Sep 5 at 9:28pm

This attempt took 82 minutes.

Question 1

2 / 2 pts

Rewrite the following 4 lines of code as a single line using a **ternary operator** to replace the **if/else** statement. *value* and *results* are variables:

```
if value % 2 == 0:
    result = 'even'
else:
    result = 'odd'
```

Your Answer:

result = 'even' if value % 2 == 0 else 'odd'

result = 'even' if value % 2 == 0 else 'odd'

Question 2**2 / 2 pts**

Name three items that should include type hints to help the reader to understand code.

Your Answer:

Variables, Function Parameters & Function Return Types

Functions, parameters, and variables should all include type hints.

Question 3**2 / 2 pts**

A function without an explicit return statement:

- ☐ returns without a return value
- ☒ returns None
- ☐ returns whatever is sitting at the top of the stack
- ☐ returns a random value

Question 4**2 / 2 pts**

Describe short circuiting with both conjunctive (AND) and disjunctive (OR) expressions.

Your Answer:

Short-circuiting means stopping of evaluation of the expression if the true value of the expression has been determined already. In python,

the process of evaluation of expression takes place from left to right.

AND

- If the left operand of the AND operator evaluates to FALSE then the evaluation stops, the right operand is not evaluated. (Since FALSE on any side of the AND operator results FALSE)
- If the left operand of the AND operator evaluates to TRUE then in this case both the operands are evaluated and the final result completely depends on the evaluation result of the right operator.

OR

- If the left operand of the OR operator evaluates to TRUE then the evaluation stops, the right operand is not evaluated. (Since TRUE on any side of the OR operator results TRUE)
- If the left operand of the OR operator evaluates to FALSE then in this case both the operands are evaluated and the final result completely depends on the evaluation result of the right operator.

Short circuiting means that expressions are evaluated from left to right, only as far as needed to determine the value.

Conjunctions (and) are evaluated from left to right as long as the expression is True. Evaluation stops as soon as any component is False.

Disjunctions (or) stop evaluation as soon as any component is True.

Question 5

2 / 2 pts

Python uses whitespace to define blocks of code in functions and conditional statements. How many spaces should be used?

- ☐ 1 - using 1 space minimizes the amount of typing
- ☐ 2 - one is too few, but two is just right
- ☐ 3 - three has always been my lucky number

- ☒ 4 - four spaces makes code easier to read

Question 6**0 / 0 pts**

“I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source.”

☒ True

☐ False

Quiz Score: 10 out of 10