

lab3.4 - Colab

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lab3.4

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Observation on how Copilot understood the instruction with zero context.

```
[ ] # Write a Python function that prints the first N Fibonacci numbers.
```

```
[ ] def print_fibonacci(n):
    """Prints the first N Fibonacci numbers."""
    a, b = 0, 1
    count = 0
    while count < n:
        print(a, end=" ")
        a, b = b, a + b
        count += 1
    print() # for a newline at the end

    # Sample input N = 7
    print_fibonacci(7)
```

```
0 1 1 2 3 5 8
```

```
[ ] # Write a Python function to reverse a list.
# Example:
# Input: [1, 2, 3, 4, 5]
# Output: [5, 4, 3, 2, 1]
```

```
[ ] def reverse_list(input_list):
```

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```
[ ] # Write a Python function to reverse a list.
# Example:
# Input: [1, 2, 3, 4, 5]
# Output: [5, 4, 3, 2, 1]
```

```
[ ] def reverse_list(input_list):
    """Reverses a given list."""
    return input_list[::-1]

# Example usage:
my_list = [1, 2, 3, 4, 5]
reversed_list = reverse_list(my_list)
print(reversed_list)
```

```
[5, 4, 3, 2, 1]
```

```
[ ] # Write a Python function to check if a string starts with a capital letter and ends with a period.
# Example 1:
# Input: "Hello."
# Output: True
# Example 2:
# Input: "world."
# Output: False
# Example 3:
# Input: "Hello"
```

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```
[ ] # Input: "Hello"
# Output: False

[ ] def check_string_format(input_string):
    """Checks if a string starts with a capital letter and ends with a period."""
    if not input_string:
        return False
    starts_with_capital = input_string[0].isupper()
    ends_with_period = input_string.endswith('.')
    return starts_with_capital and ends_with_period

# Example Usage:
print(check_string_format("Hello.")) # Output: True
print(check_string_format("world.")) # Output: False
print(check_string_format("Hello")) # Output: False
print(check_string_format("")) # Output: False

True
False
False
False

[ ] import re

def validate_email_zero_shot(email):
    """Basic email validation."""
    # This is a simple regex that checks for the presence of '@' and a domain part.
```

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```
True
False
False
False

[ ] import re

def validate_email_zero_shot(email):
    """Basic email validation."""
    # This is a simple regex that checks for the presence of '@' and a domain part.
    # It's not fully RFC 5322 compliant but is a common basic check.
    if re.match(r"^[^@]+@^[^@]+\.[^@]+$", email):
        return True
    else:
        return False

# Example usage:
print(validate_email_zero_shot("test@example.com"))
print(validate_email_zero_shot("test@example"))
print(validate_email_zero_shot("testexample.com"))

True
False
False

[ ] import re
```

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```
[ ] import re

def validate_email_few_shot(email):
    """Validates an email address using a more comprehensive regex."""
    # This regex is more robust than the basic one, covering more email formats.
    email_regex = r'^[a-zA-Z0-9_%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$'
    if re.match(email_regex, email):
        return True
    else:
        return False

# Example usage:
print(validate_email_few_shot("test@example.com"))
print(validate_email_few_shot("invalid-email"))
print(validate_email_few_shot("another.test@sub.domain.co.uk"))
print(validate_email_few_shot("test@example"))
print(validate_email_few_shot("testexample.com"))
```

True  
False  
True  
False  
False

Double-click (or enter) to edit