Assignment 1 – Code Review & Error Correction

Vault of Codes Internship

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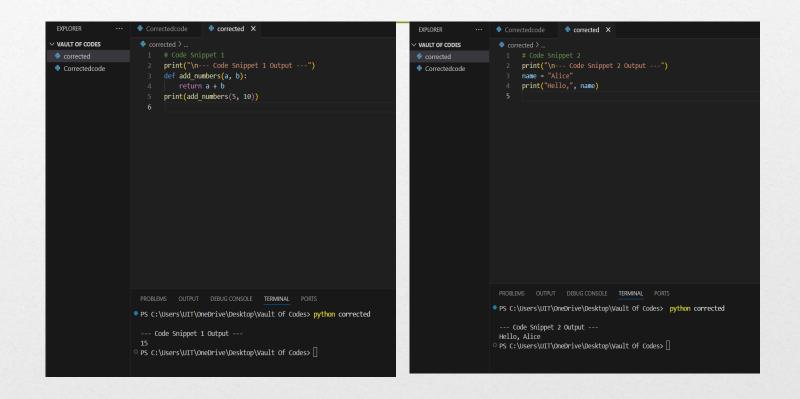
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<u>Instructions</u>

- Identify errors in the given Python code snippets.
- Correct the code for each snippet.
- Explain why the fix works.
- Columns: Snippet No., Error, Corrected Code, Explanation

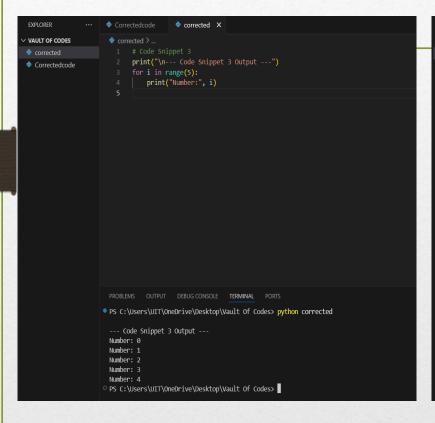
Snipp et No.	Error	Corrected Code	Explanatio n
1	Missing colon after function definition.	def add_numbers(a, b): return a + b print(add_numbers(5, 10))	Every function definition in Python must end with a colon before the indented block.
2	No error.	name = "Alice" print("Hello, " + name)	Code correctly concatenates and prints a greeting.

Outputs Of 1 & 2 Snippets



Snipp et No.	Error	Corrected Code	Explanatio n
3	Missing colon after range(5).	for i in range(5): print("Number:", i)	Loops in Python must end with a colon.
4	Index out of range.	my_list = [1, 2, 3, 4, 5] print("The fifth element is:", my_list[4])	Lists use zero-based indexing; the 5th element is at index 4.

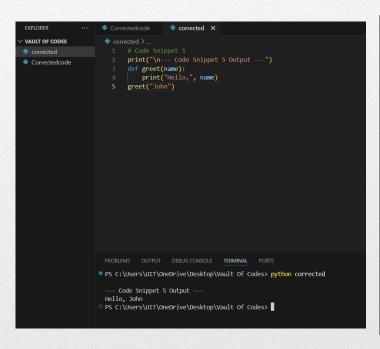
Outputs Of 3 & 4 Snippets



```
EXPLORER
                ··· @ Correctedcode
                                        corrected X
VAULT OF CODES
                      corrected > ...
                            print("\n--- Code Snippet 4 Output ---")
Correctedcode
                           my_list = [1, 2, 3, 4, 5]
                            print("The fifth element is:", my list[4])
                      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
                      PS C:\Users\UIT\OneDrive\Desktop\Vault Of Codes> python corrected
                      --- Code Snippet 4 Output ---
                      The fifth element is: 5
                     OPS C:\Users\UIT\OneDrive\Desktop\Vault Of Codes>
```

Snippe t No.	Error	Corrected Code	Explanatio n
5	Missing indentation.	def greet(name): print("Hello,", name) greet("Tom")	Python uses indentation to define code blocks.
6	Input type mismatch.	<pre>age = int(input("Enter your age: ")) if age >= 18: print("You are eligible to vote.") else: print("You are not eligible to vote.")</pre>	Convert input to integer before comparing numbers.

Outputs Of 5 & 6 Snippets



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Proceeds

Proceeds of Print("You are not eligible to vote.")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\UIT\OneDrive\Desktop\Vault of Codes> python corrected

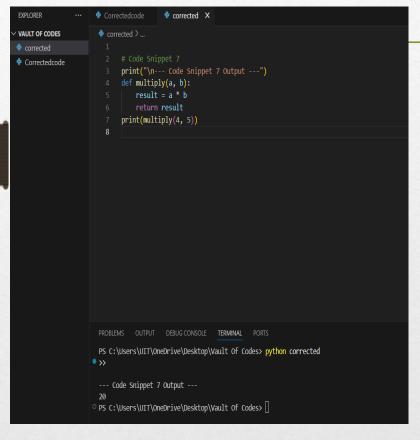
--- Code Snippet 6 Output ---
Enter your age: 18

You are eligible to vote.

PS C:\Users\UIT\OneDrive\Desktop\Vault of Codes> [
```

Snippe t No.	Error	Corrected Code	Explanatio n
7	Wrong operator.	<pre>def multiply(a, b): result = a * b return result print(multiply(4, 5))</pre>	Multiplication uses *, not +.
8	Wrong loop condition and decrement.	<pre>count = 10 while count > 0: print(count) count -= 1 print("Countdown complete!")</pre>	Use > for comparison and -= to decrement.

Outputs Of 7 & 8 Snippets



```
EXPLORER
                     Correctedcode
                                         corrected X
VAULT OF CODES
                      corrected >.
corrected **
                            print("\n--- Code Snippet 8 Output ---")
Correctedcode
                            count = 10
                            while count > 0:
                                print(count)
                                count -= 1
                            print("Countdown complete!")
                      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
                      --- Code Snippet 8 Output ---
OUTLINE
                      Countdown complete!
TIMELINE
                    PS C:\Users\UIT\OneDrive\Desktop\Vault Of Codes>
```