Assingment-7.1

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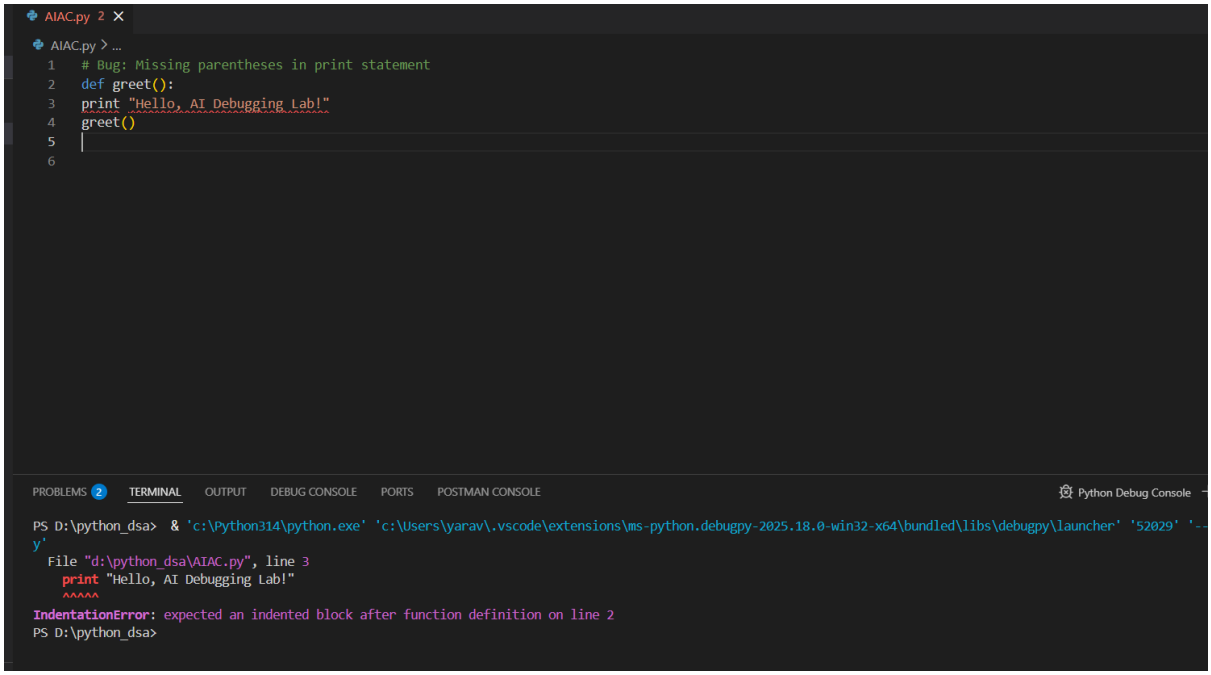
Batch-08

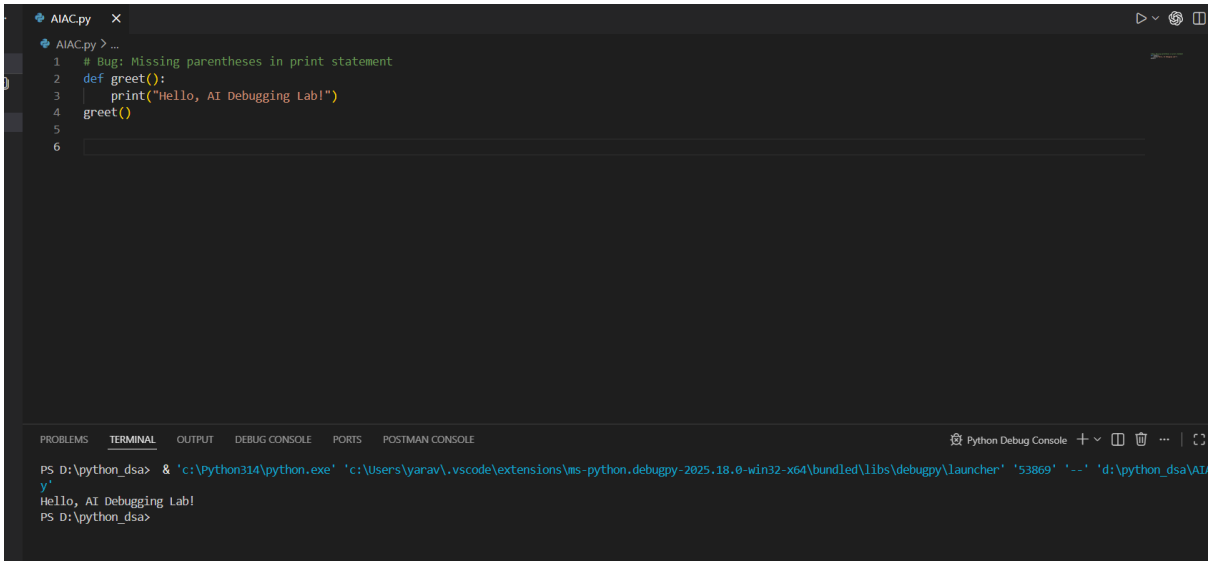
Lab 7: Error Debugging with AI: Systematic approaches to finding and fixing bugs

Task Description #1 (Syntax Errors – Missing Parentheses in Print Statement)

Task: Provide a Python snippet with a missing parenthesis in a print statement (e.g., print "Hello"). Use AI to detect and fix the syntax error.



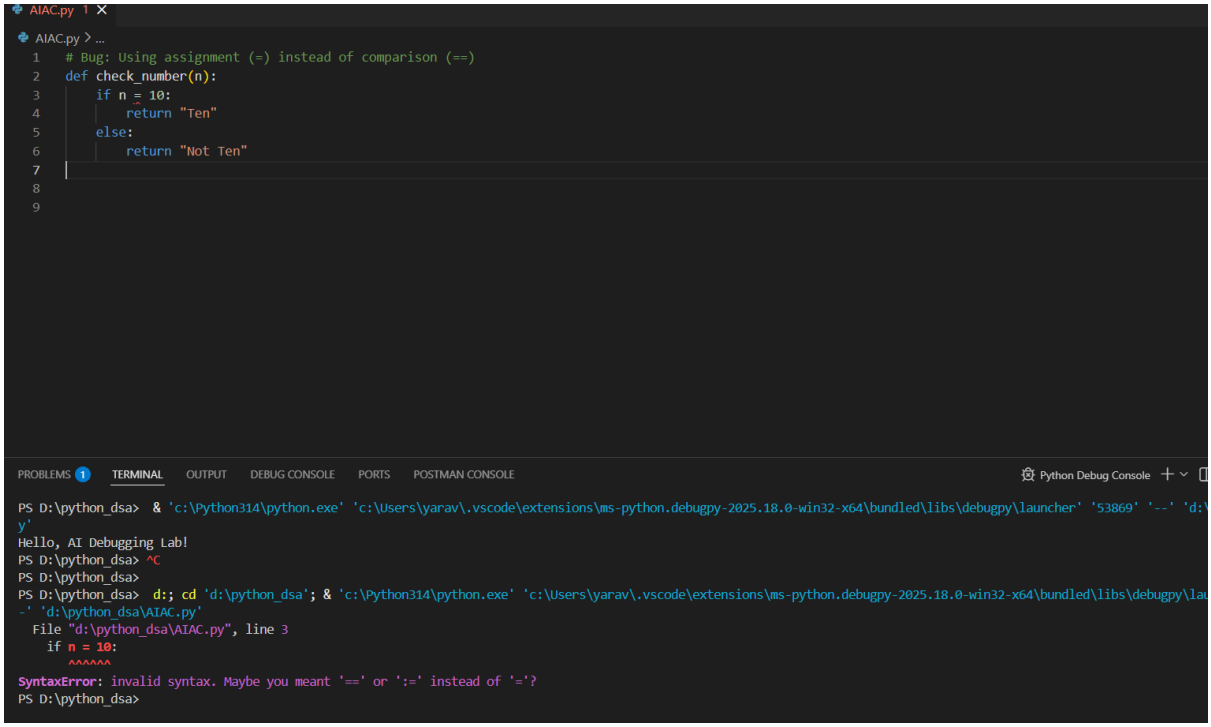
Corrected Code



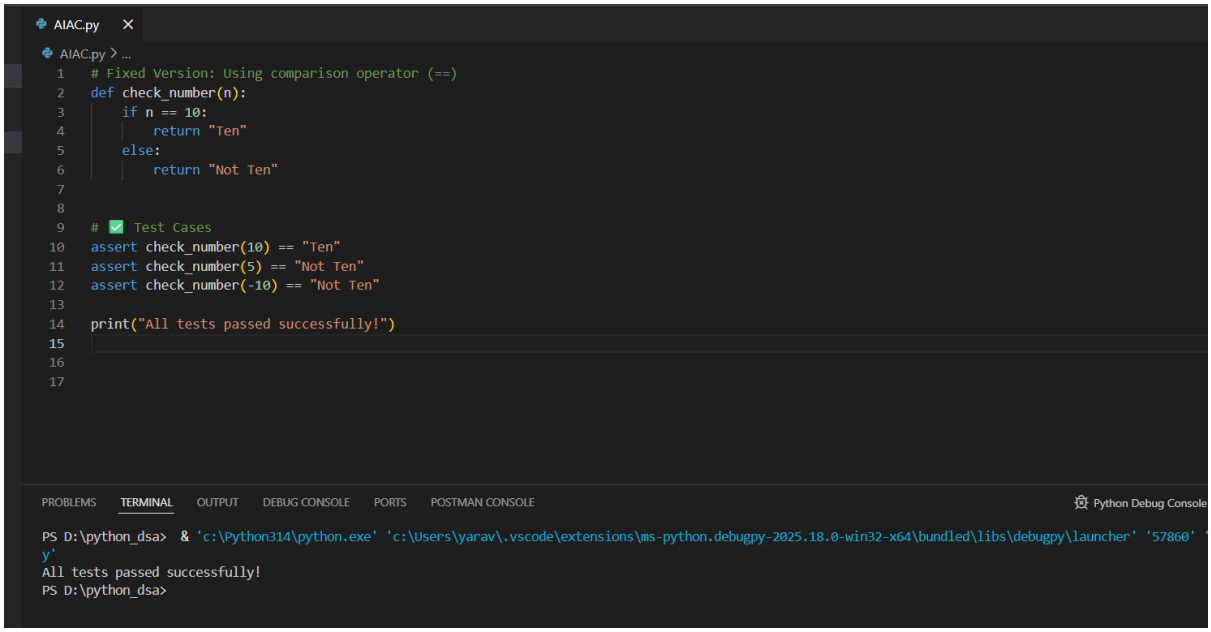
Task Description #2 (Incorrect condition in an If Statement)

Task: Supply a function where an if-condition mistakenly uses =

instead of ==. Let AI identify and fix the issue.



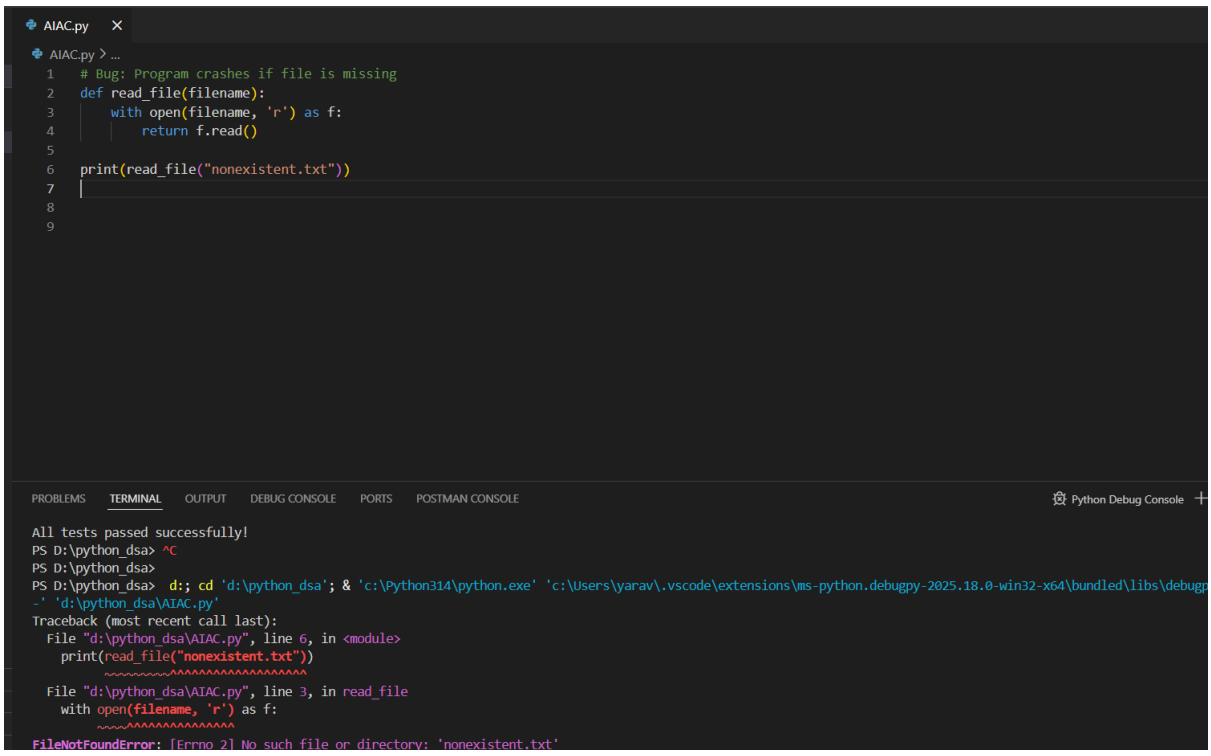
Corrected Code



Task Description #3 (Runtime Error – File Not Found)

Task: Provide code that attempts to open a non-existent file and

crashes. Use AI to apply safe error handling.

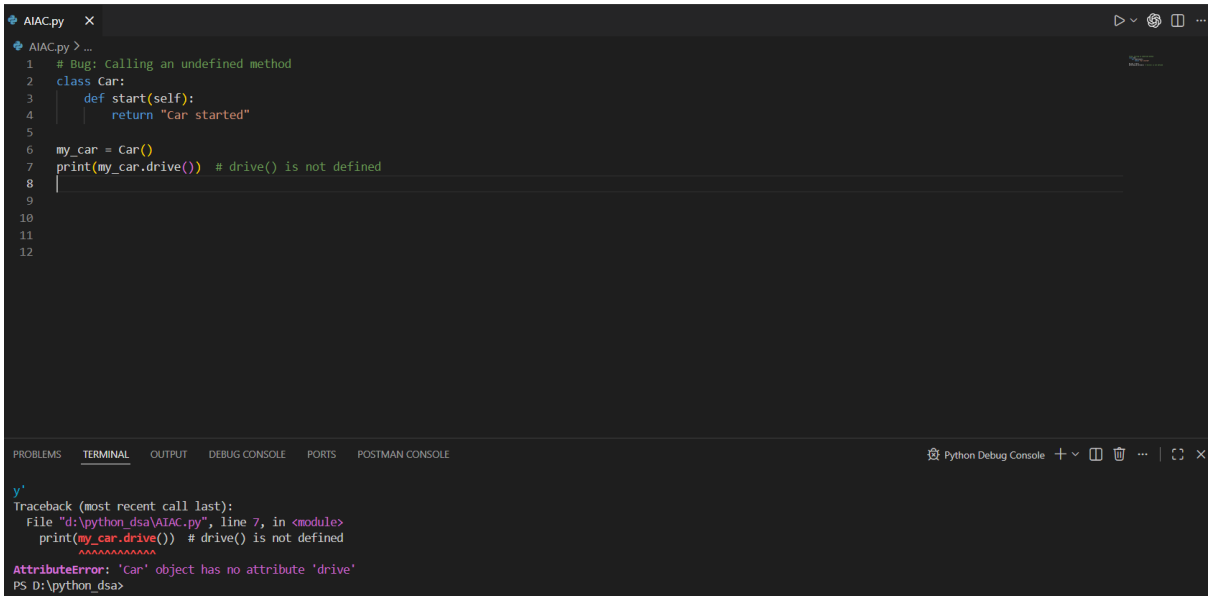


Safe Version with Exception Handling

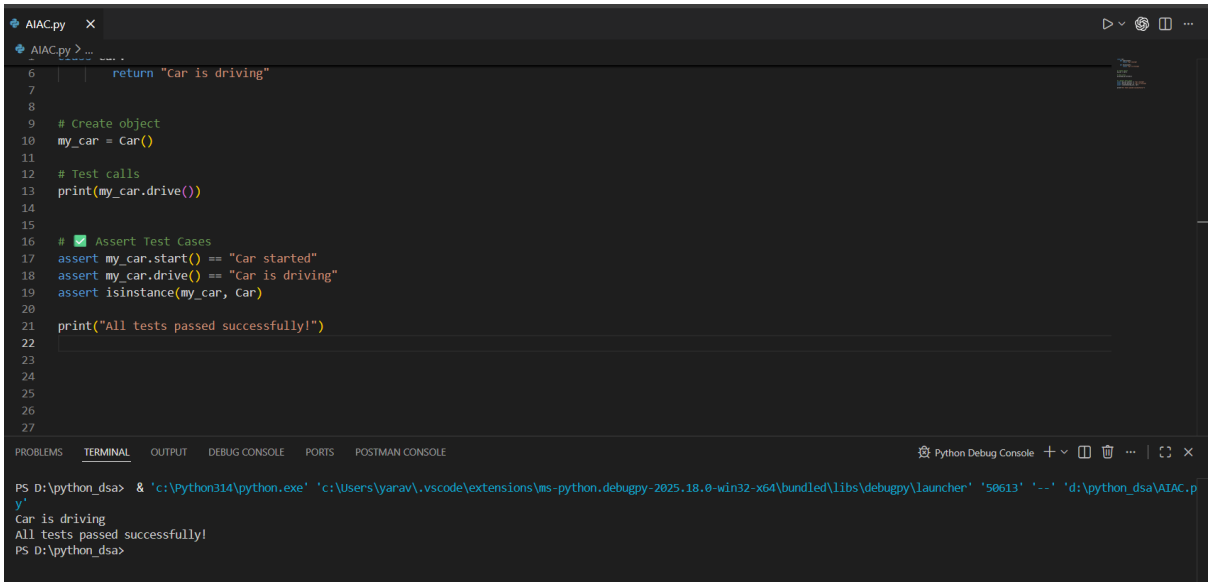
Task Description #4 (Calling a Non-Existent Method)

Task: Give a class where a non-existent method is called (e.g.,

obj.undefined_method()). Use AI to debug and fix.



Corrected Code

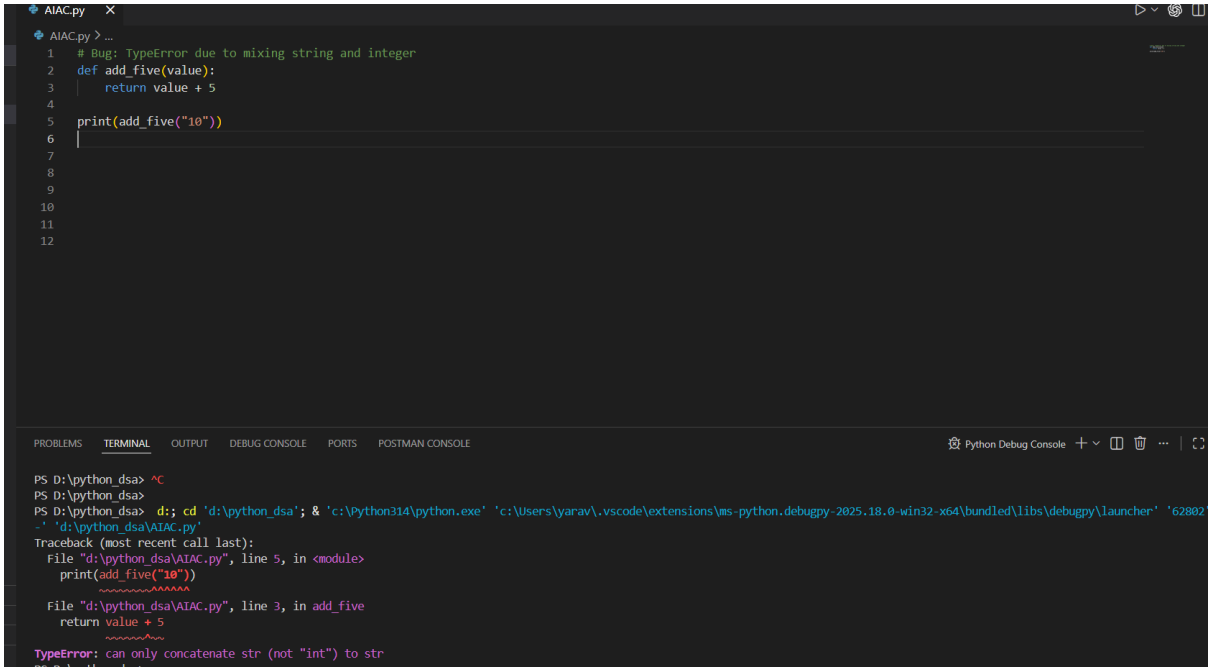


Task Description #5 (TypeError – Mixing Strings and Integers in

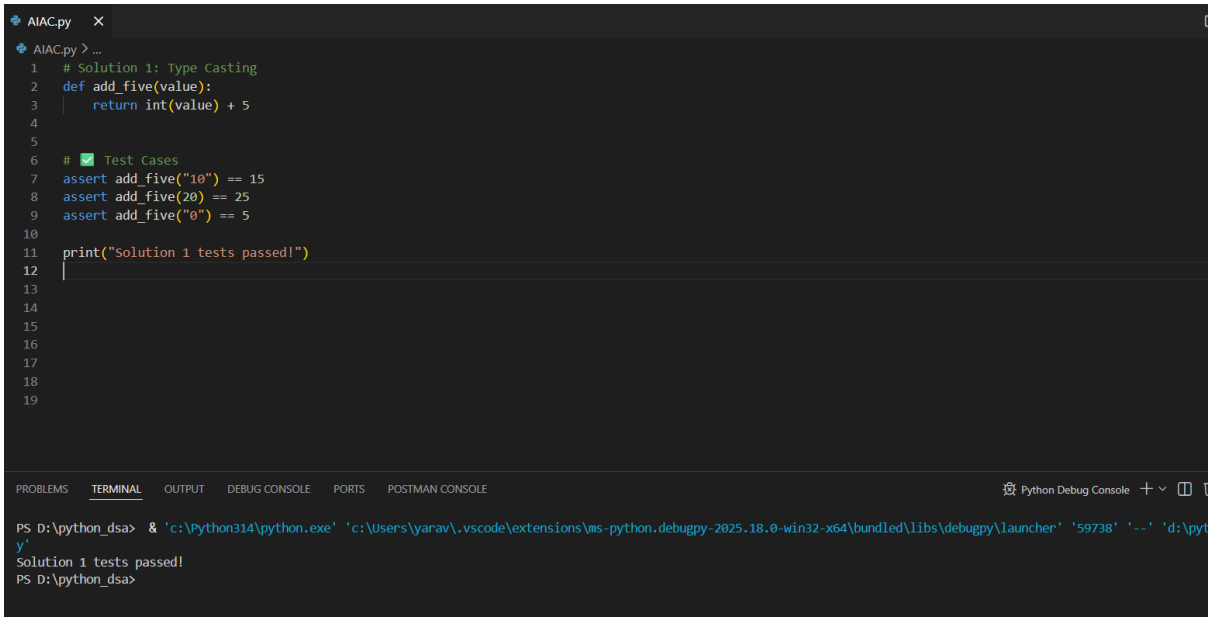
Addition)

Task: Provide code that adds an integer and string ("5" + 2) causing

a TypeError. Use AI to resolve the bug



Solution 1: Type Casting (Convert to Integer)



Solution 2: String Concatenation