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***ASSIGNMENT 7.1***

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***BATCH NO : 12***

***Assignment 7.1:***

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

***Prompt: Create a Python snippet with a missing parenthesis in a print statement, run it to observe the syntax error, then apply AI to fix it. Add at least three assert test cases verifying that the corrected code works correctly***

***Output:***

***Code:***

***A screen shot of a computer

AI-generated content may be incorrect.***

***Corrected code:***

A screenshot of a computer

AI-generated content may be incorrect.

***Task Description #2 (Logic Error Incorrect Condition in an If Statement):***

***Prompt:*** ***Write a Python function with a bug where an if-condition incorrectly uses = instead of ==. Run it to see the error, then use AI to explain why it fails, correct the code, and verify correctness with three assert test cases.***

***Output:***

***Code:***

A screenshot of a computer program

AI-generated content may be incorrect.

***Corrected code:***

A screenshot of a computer program

AI-generated content may be incorrect.

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

***Prompt:*** ***Write a Python function that tries to open a non-existent file and crashes. Run it to see the error, then use AI to add safe error handling with a try-except block, provide a user-friendly message, and test three scenarios: file exists, file missing, and invalid path***

***Output:***

***Code:***

A screenshot of a computer program

AI-generated content may be incorrect.

***Corrected code:***

A screenshot of a computer program

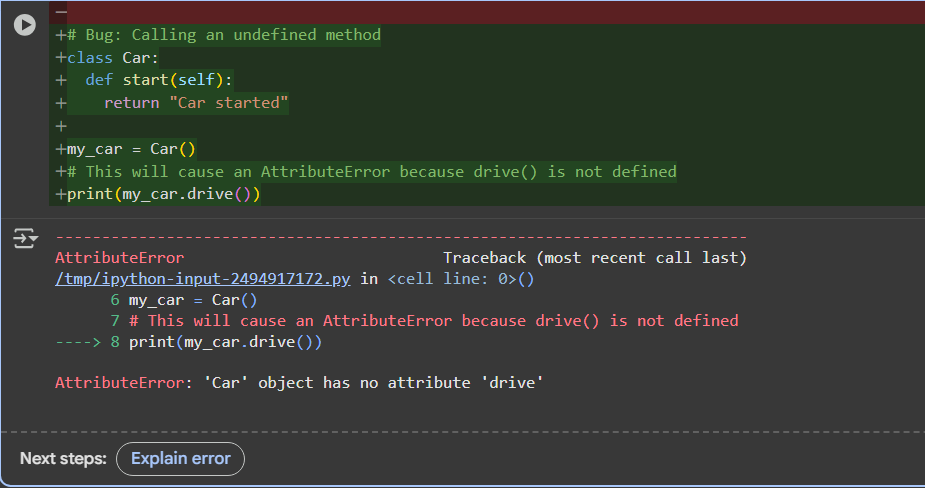
AI-generated content may be incorrect.

***Task Description #4 (Attribute Error – Calling a Non-Existent Method)***

***Prompt: Write a Python class where an object calls a non-existent method (e.g., obj. undefined\_ method ()), causing an error. Run the code to observe the failure, then use AI to explain the issue, decide whether to define the missing method or correct the method call, and verify correctness with three assert test cases.***

***Output:***

***Code:***



***Corrected code:***

A screenshot of a computer

AI-generated content may be incorrect.

***Task Description #5 (TypeError Mixing Strings and Integers in Addition):***

***Prompt: Write a Python function that adds an integer and a string (e.g., "5" + 2), causing a TypeError. Run to observe the error, then use AI to suggest fixes, such as type casting and string concatenation. Verify correctness with three assert test cases.***

***Output:***

***Code:***

A screenshot of a computer program

AI-generated content may be incorrect.

***Corrected code:***

A screenshot of a computer program

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.