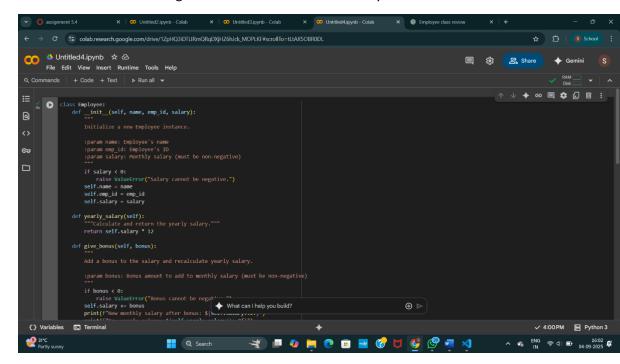
AI_ASSIGNMENT: 6

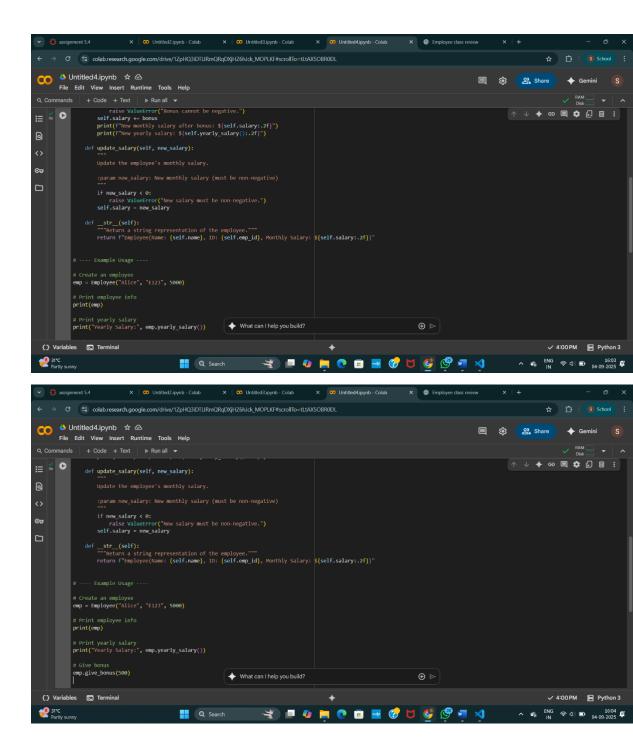
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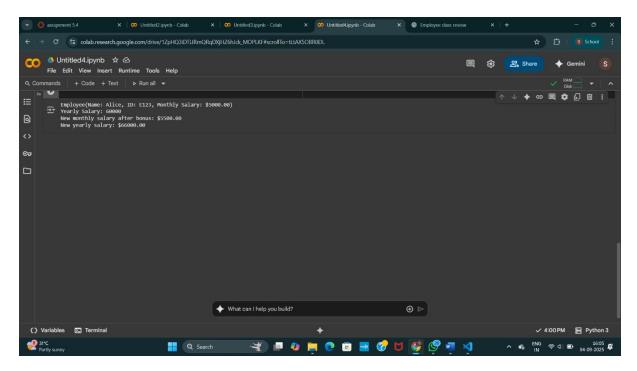
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Task Description #1 (Classes – Employee Management)

- Task: Use AI to create an Employee class with attributes (name, id, salary) and a method to calculate yearly salary.
- Instructions:
 - o Prompt AI to generate the Employee class.
 - Analyze the generated code for correctness and structure.
 - Ask AI to add a method to give a bonus and recalculate salary.

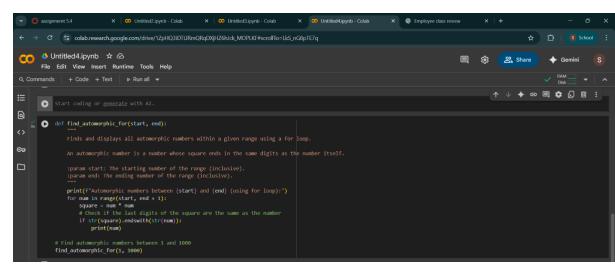


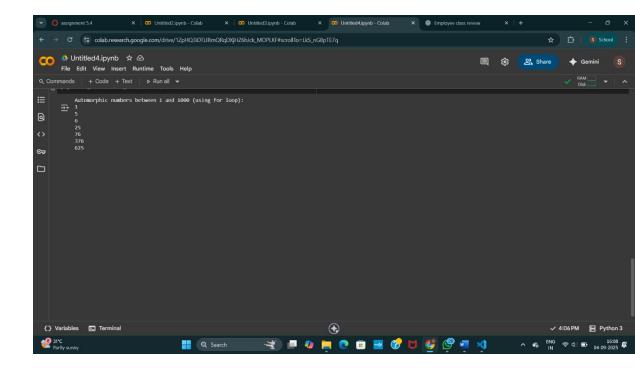




Task Description #2 (Loops – Automorphic Numbers in a Range)

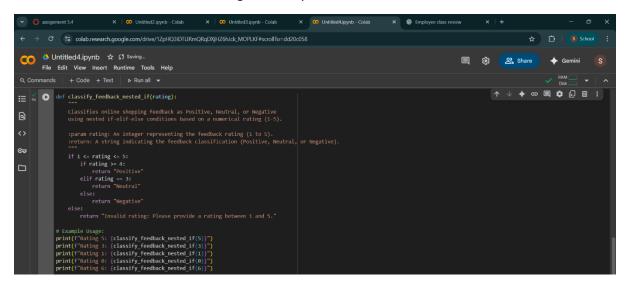
- Task: Prompt AI to generate a function that displays all Automorphic numbers between 1 and 1000 using a for loop.
- Instructions:
 - Get Al-generated code to list Automorphic numbers using a for loop.
 - o Analyze the correctness and efficiency of the generated logic.
 - Ask AI to regenerate using a while loop and compare both implementations.

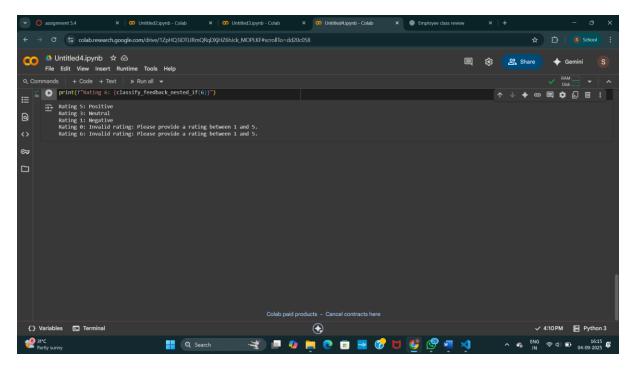




Task Description #3 (Conditional Statements – Online Shopping Feedback Classification)

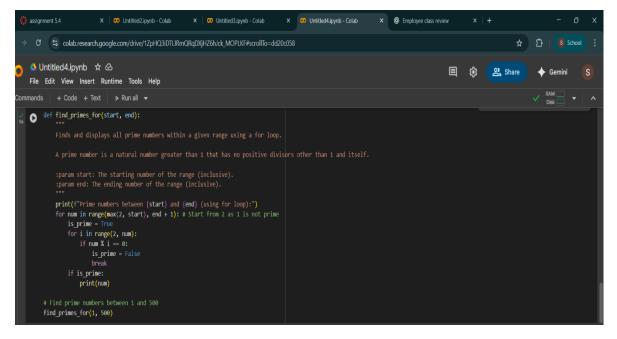
- Task: Ask AI to write nested if-elif-else conditions to classify online shopping feedback as Positive, Neutral, or Negative based on a numerical rating (1–5).
- Instructions:
 - o Generate initial code using nested if-elif-else.
 - Analyze correctness and readability.
 - o Ask AI to rewrite using dictionary-based or match-case structure.

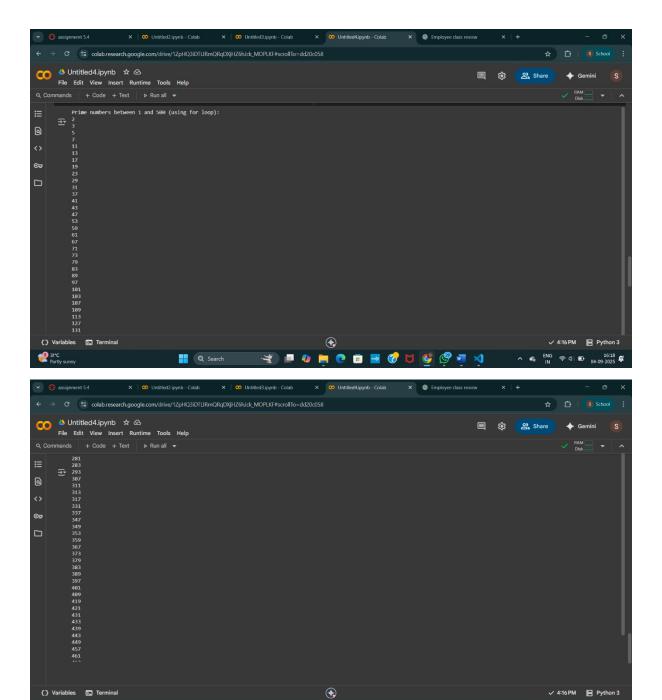




Task Description #4 (Loops – Prime Numbers in a Range)

- Task: Generate a function using AI that displays all prime numbers within a user-specified range (e.g., 1 to 500).
- Instructions:
 - o Get Al-generated code to list all primes using a for loop.
 - o Analyze the correctness and efficiency of the prime-checking logic.
 - o Ask AI to regenerate an optimized version (e.g., using the square root method).





Task Description #5 (Classes – Library System)

• Task: Use AI to build a Library class with methods to add_book(), issue_book(), and display_books().

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- Instructions:
 - o Generate Library class code using Al.
 - o Analyze if methods handle edge cases (e.g., issuing unavailable books).

Ask AI to add comments and documentation.

