Assignment 6:1

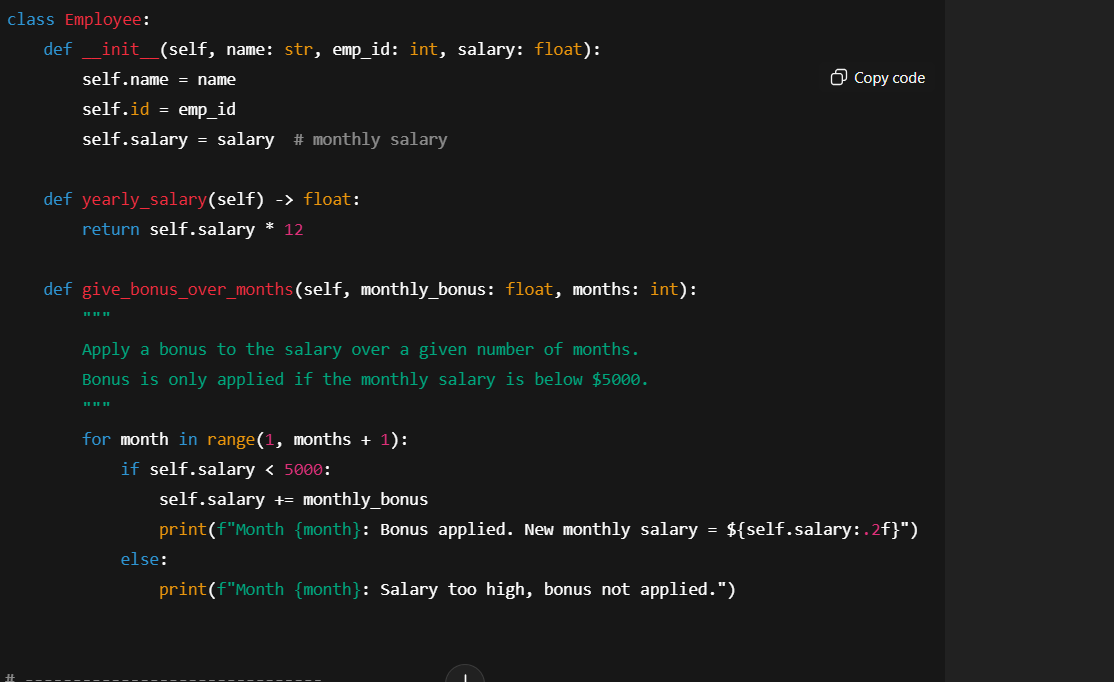
NAME: CH PAVAN KUMAR

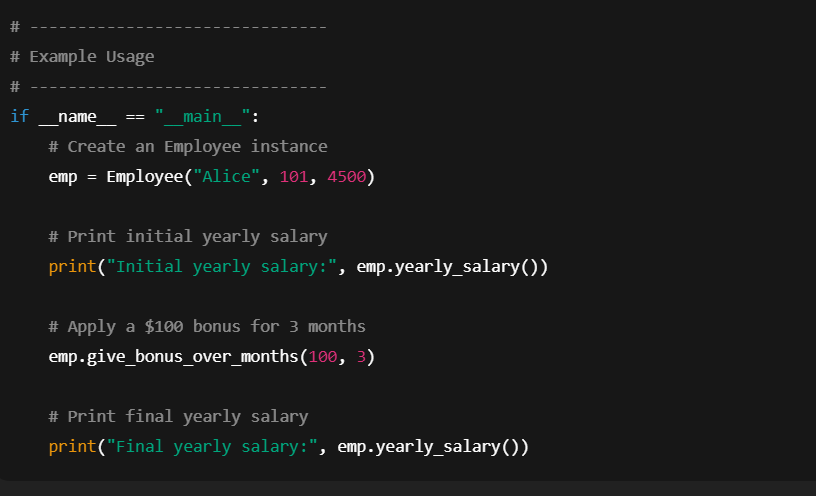
ROLL.NO:2403A51318

DATE: 8/9/25

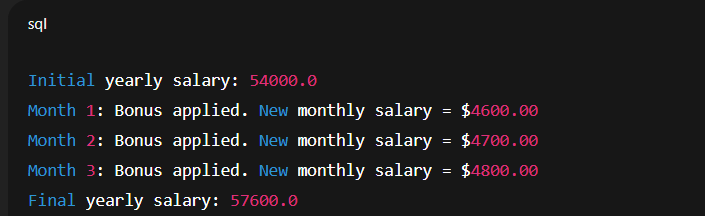
Task Description 1: (Classes – Employee Management)  
• Task: Use AI to create an Employee class with attributes (name,  
id, salary) and a method to calculate yearly salary.  
• Instructions:  
o Prompt AI to generate the Employee class.  
o Analyze the generated code for correctness and structure.  
o Ask AI to add a method to give a bonus and recalculate  
salary.

CODE:

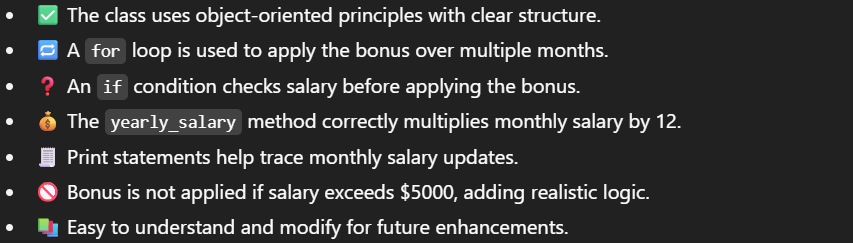




OUTPUT:

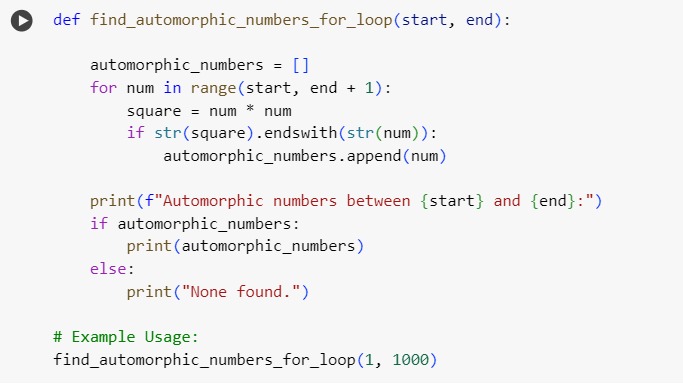


OBSERVATION:



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:  
o Get AI-generated code to list Automorphic numbers using  
a for loop.  
o Analyze the correctness and efficiency of the generated  
logic.  
o Ask AI to regenerate using a while loop and compare both  
implementations

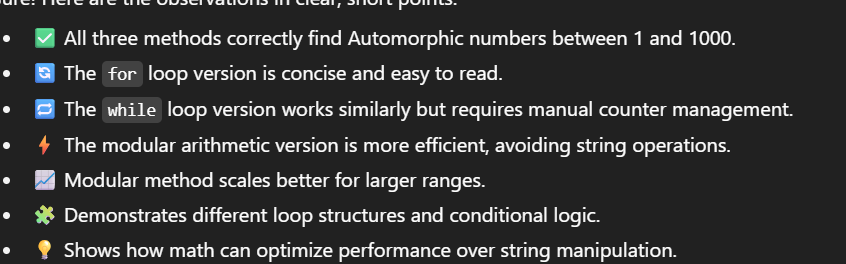
CODE:



OUTPUT:



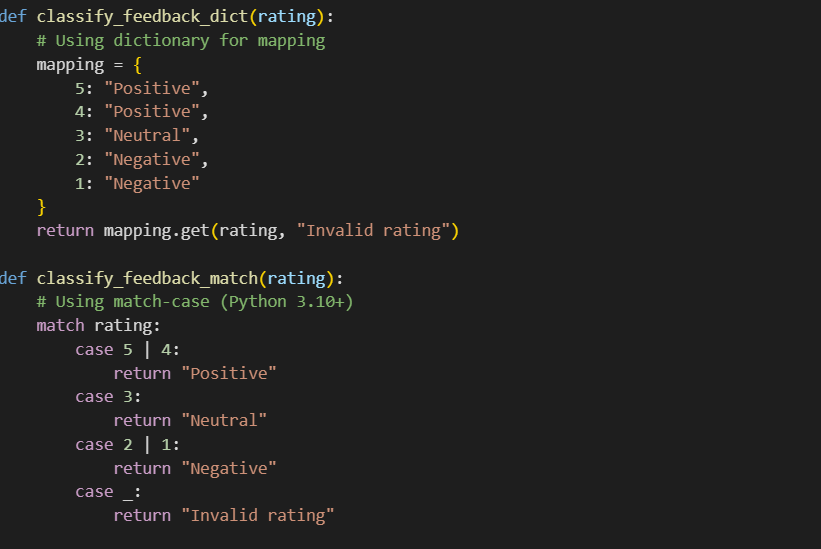
OBSERVATION:

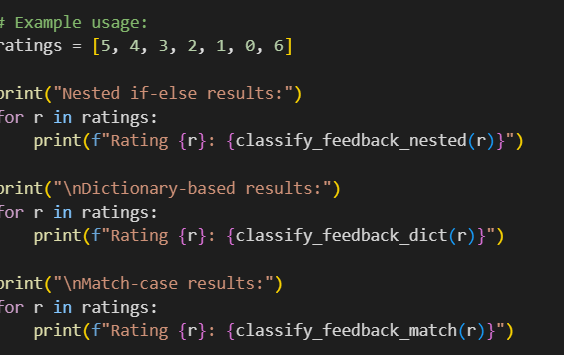


Task Description:3 (Conditional Statements – Online Shopping  
Feedback Classification)  
• Task: Ask AI to write nested if-elif-else conditions to classify  
online shopping feedback as Positive, Neutral, or Negative based  
on a numerical rating (1–5).  
• Instructions:  
o Generate initial code using nested if-elif-else.  
o Analyze correctness and readability.  
o Ask AI to rewrite using dictionary-based or match-case  
structure.  
Expected Output #3:  
• Feedback classification function with explanation and an  
alternative approach

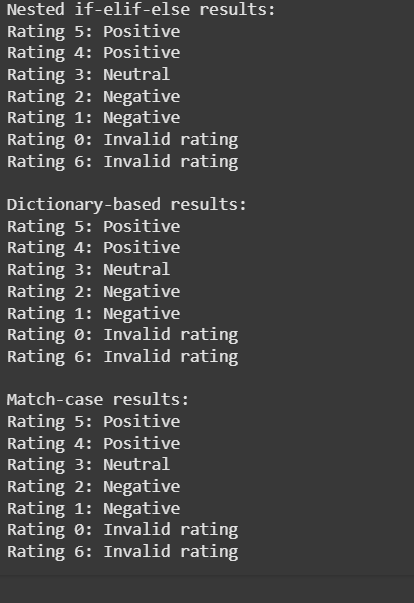
CODE:



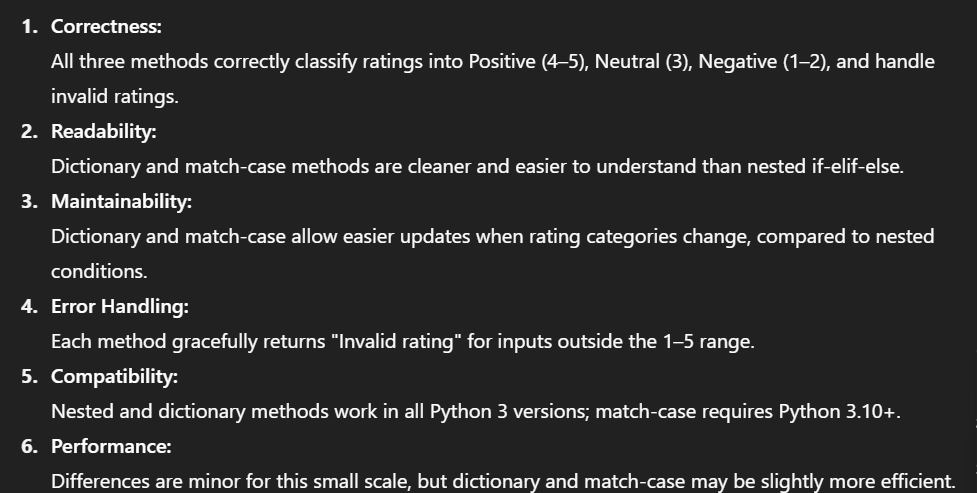




OUTPUT:

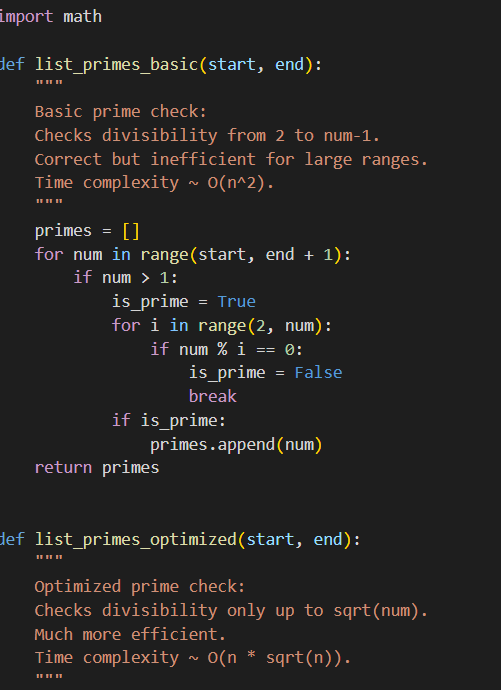


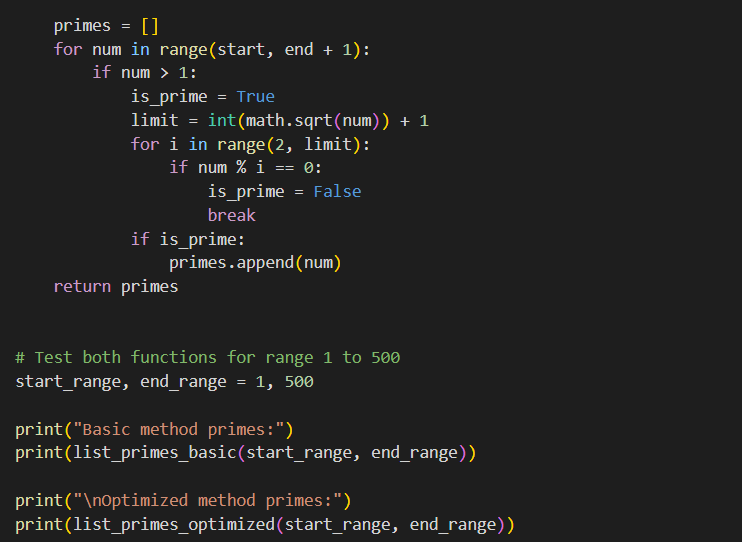
OBSERVATION:



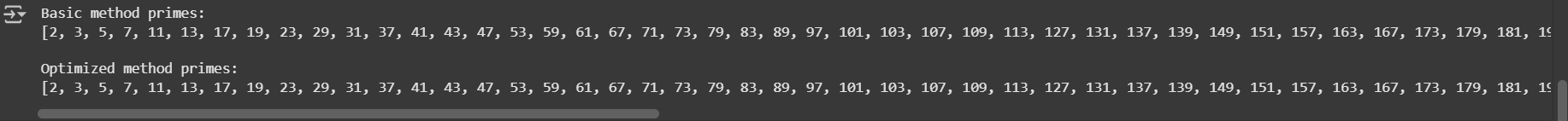
Task Description :4 (Loops – Prime Numbers in a Range)  
• Task: Generate a function using AI that displays all prime  
numbers within a user-specified range (e.g., 1 to 500).  
• Instructions:  
o Get AI-generated code to list all primes using a for loop.  
o Analyze the correctness and efficiency of the prime-  
checking logic.  
o Ask AI to regenerate an optimized version (e.g., using the  
square root method).  
Expected Output #4:  
• Python program that lists all prime numbers within a given range,  
with an optimized version and explanation.

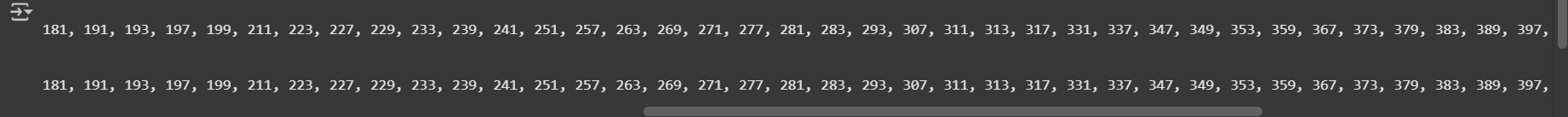
CODE:

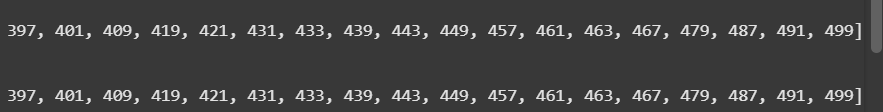




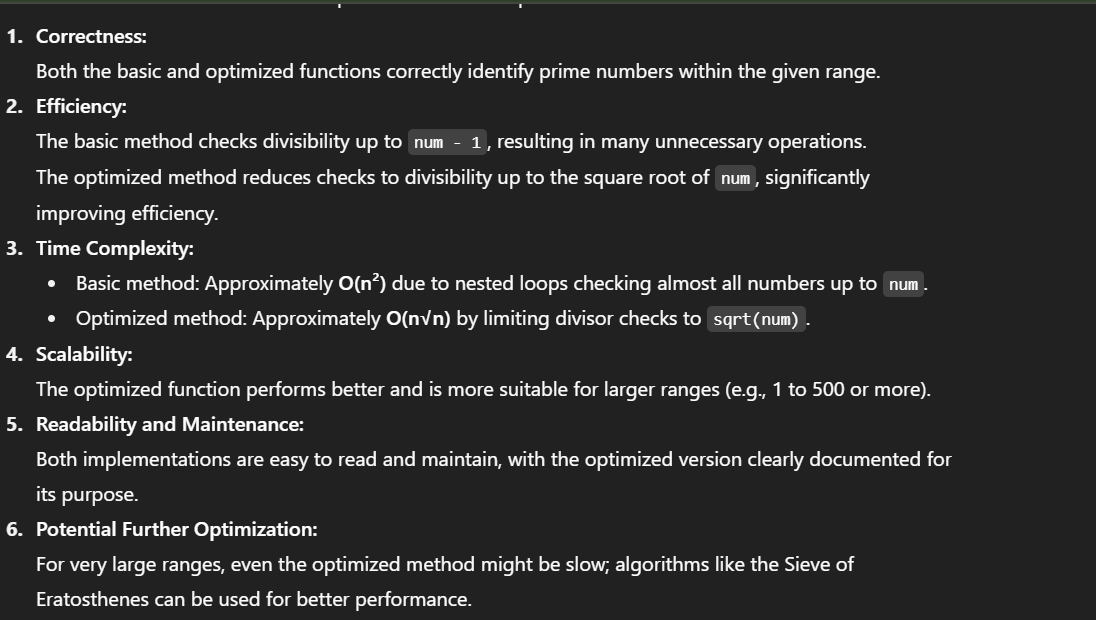
OUTPUT:





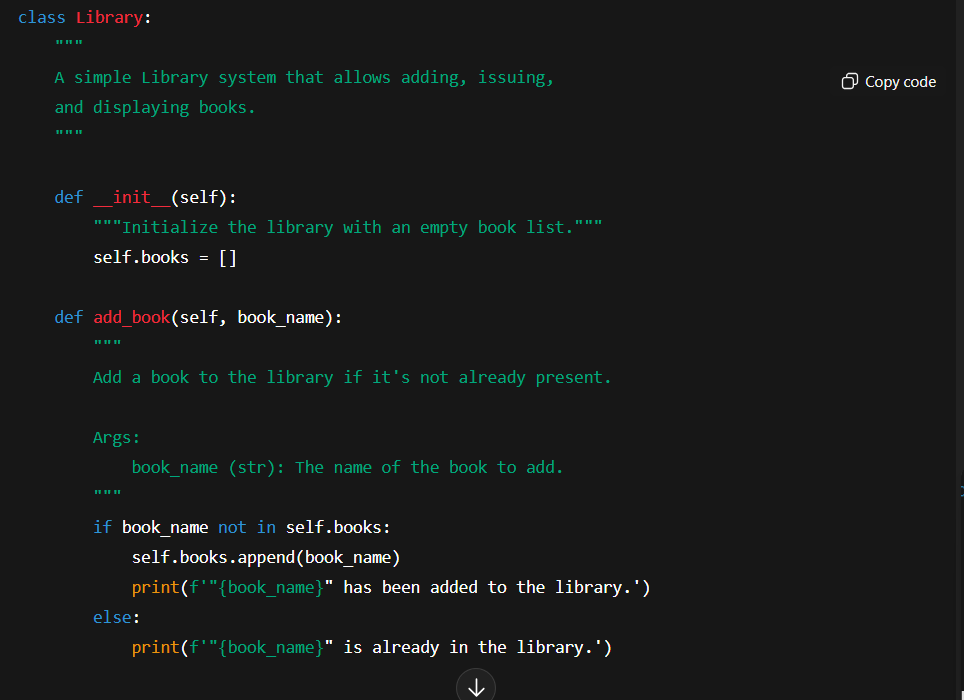


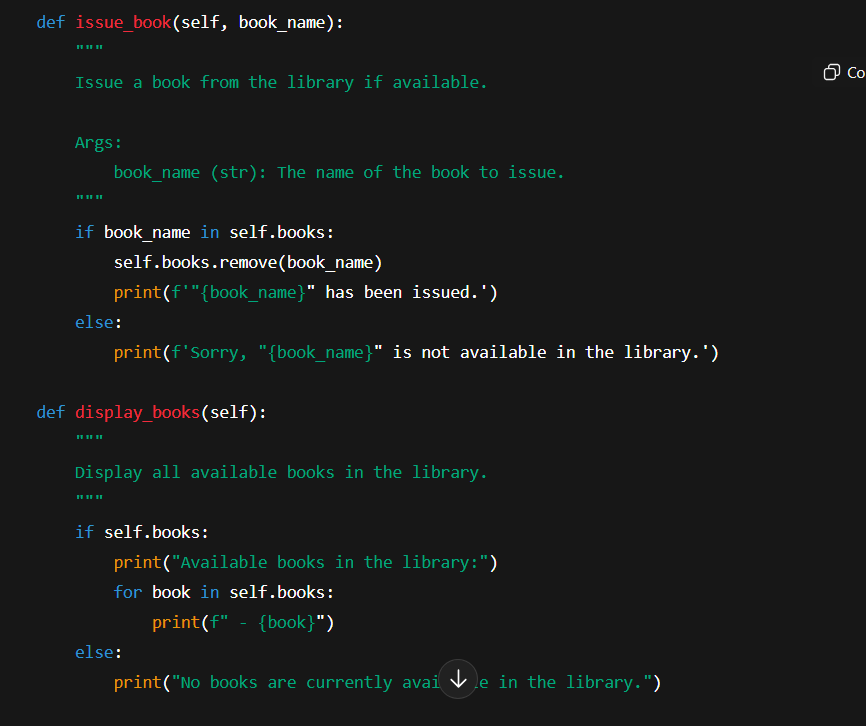
OBSERVATION:



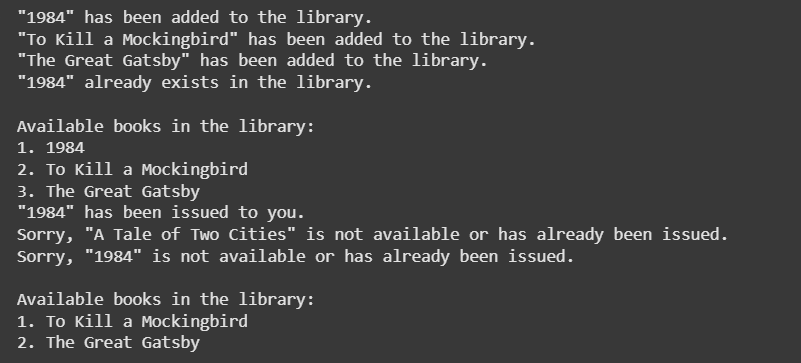
Task Description:5 (Classes – Library System)  
• Task: Use AI to build a Library class with methods to  
add\_book(), issue\_book(), and display\_books().  
• Instructions:  
o Generate Library class code using AI.  
o Analyze if methods handle edge cases (e.g., issuing  
unavailable books).  
o Ask AI to add comments and documentation.  
Expected Output #5:  
• Library class with all methods, inline comments, and explanation.

CODE:





OUTPUT:

  
OBSERVATION:

