

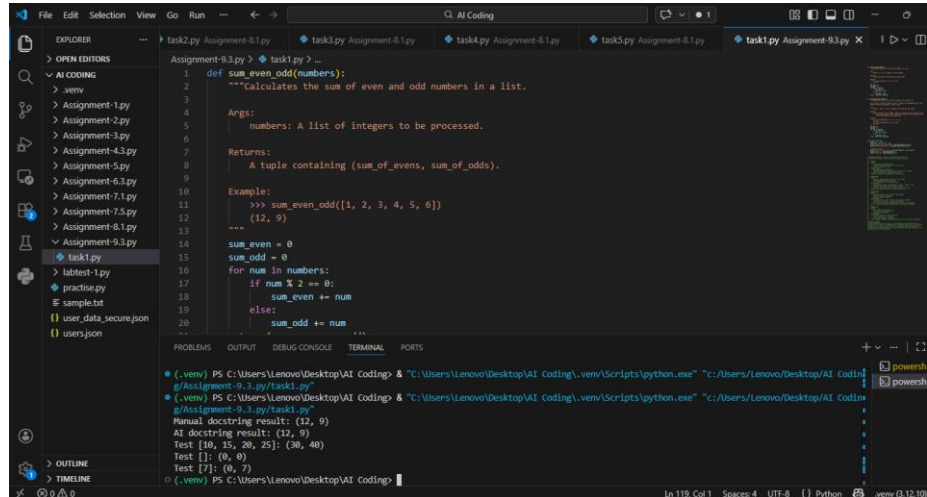
SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE		DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
Program Name: B. Tech		Assignment Type: Lab	Academic Year: 2025-2026
Course Coordinator Name		Dr. Rishabh Mittal	
Course Code	23CS002PC304	Course Title	AI Assisted Coding
Year/Sem	III/II	Regulation	R23
Date and Day of Assignment	Week 3 – Wednesday	Time(s)	23CSBTB01 To 23CSBTB52
Name	sushma	Applicable to Batches	All batches
Assignment Number: 9.3(Present assignment number)/24(Total number of assignments)			
Q.No.	Question	Expected Time to complete	
1	<p><b>Lab 9: Documentation Generation – Automatic Documentation and Code Comments</b></p> <p><b>Lab Objectives</b></p> <ul style="list-style-type: none"> <li>• To understand the importance of documentation and code comments in software development</li> <li>• To explore how AI-assisted coding tools generate documentation and inline comments</li> <li>• To practice generating function-level and module-level docstrings automatically</li> <li>• To evaluate the quality and accuracy of AI-generated documentation</li> <li>• To develop a small automated documentation generator in Python</li> </ul> <hr/> <p><b>Lab Outcomes (LOs)</b> After completing this lab, students will be able to:</p> <ul style="list-style-type: none"> <li>• Apply AI-assisted coding tools to generate docstrings and inline comments</li> <li>• Analyze AI-generated documentation for correctness and readability</li> <li>• Create structured documentation using standard formats (Google, NumPy)</li> <li>• Design a mini documentation generation tool</li> </ul> <p><b>Task 1: Basic Docstring Generation</b> <b>Scenario</b> You are developing a utility function that processes numerical lists and must be properly documented for future maintenance. <b>Prompt : Create a Python function named <code>sum_even_odd(numbers)</code> that takes a list of integers and returns a tuple containing the sum of even numbers and sum of odd numbers.</b></p> <p><b>1. First, write the function with a manually written Google Style docstring including:</b></p> <ul style="list-style-type: none"> <li>- Description</li> <li>- Args</li> <li>- Returns</li> <li>- Example</li> </ul> <p><b>2. Then generate an AI-style Google docstring for the same function separately (without changing logic).</b></p>	Week 4 - Wednesday	

### 3. Provide a structured comparison analyzing:

- Clarity
- Correctness
- Completeness
- Readability

Ensure the code runs without errors.

Code :



```
def sum_even_odd(numbers):
    """Calculates the sum of even and odd numbers in a list.

    Args:
        numbers: A list of integers to be processed.

    Returns:
        A tuple containing (sum_of_evens, sum_of_odds).

    Example:
        >>> sum_even_odd([1, 2, 3, 4, 5, 6])
        (12, 9)
    """
    sum_even = 0
    sum_odd = 0
    for num in numbers:
        if num % 2 == 0:
            sum_even += num
        else:
            sum_odd += num
    return (sum_even, sum_odd)
```

Manual docstring result: (12, 9)  
AI docstring result: (12, 9)  
Test [10, 15, 20, 25]: (30, 40)  
Test [1]: (0, 0)  
Test [7]: (0, 7)

### Requirements

- Write a Python function to return the **sum of even numbers** and **sum of odd numbers** in a given list
- Manually add a **Google Style docstring** to the function
- Use an AI-assisted tool (Copilot / Cursor AI) to generate a function-level docstring
- Compare the **AI-generated docstring** with the **manually written docstring**
- Analyze clarity, correctness, and completeness

### Expected Output

- Python function with manual Google-style docstring
- AI-generated docstring for the same function
- Comparison explaining differences between manual and AI-generated documentation
- Improved understanding of AI-generated function-level documentation

**Explanation :** In this task, we create a function `sum_even_odd(numbers)` that finds the sum of even and odd numbers from a list and returns them as a tuple. The main focus is writing Google Style docstrings manually and then generating an AI-style docstring for the same function. Finally, both docstrings are compared based on clarity, correctness, completeness, and readability.

### Task 2: Automatic Inline Comments

#### Scenario

You are developing a student management module that must be easy to understand for new developers.

**Prompt :** Create a Python class named `sru_student` with:

#### Attributes:

- name
- roll\_no
- hostel\_status

#### Methods:

- fee\_update(amount)
- display\_details()

1. First, write the class with detailed manual inline comments explaining each line or logical block.
2. Then generate an AI-assisted version of inline comments for the same code (without changing logic).
3. Provide a comparison discussing:
  - Missing comments
  - Redundant comments
  - Incorrect explanations
  - Strengths and limitations of AI-generated comments

Ensure the program runs without errors.

Code :

```

1 # =====
2 # PART 1: MANUALLY WRITTEN INLINE COMMENTS VERSION
3 # =====
4
5 class sru_student:
6     # Class definition for SRU student with essential attributes and methods
7
8     def __init__(self, name, roll_no, hostel_status):
9         # Constructor method to initialize a student object
10         # Parameters:
11         # - name: Student's full name (string)
12         # - roll_no: Student's roll number (integer or string)
13         # - hostel_status: whether student lives in hostel (boolean or string)
14
15         self.name = name # Store the student's name in instance variable
16         self.roll_no = roll_no # Store the student's roll number
17         self.hostel_status = hostel_status # Store hostel residency status
18
19
20 # =====
21 # TESTING MANUALLY COMMENTED VERSION:
22 # =====
23
24 # Fee update logic
25 fee_updated = 0
26 total_fees_paid = 0
27
28 # Student details
29 student_name = "Rajesh Kumar"
30 student_roll_no = "101"
31 student_hostel_status = "Residing in Hostel A"
32
33 # Output
34 print(f"Student Name: {student_name}")
35 print(f"Roll Number: {student_roll_no}")
36 print(f"Hostel Status: {student_hostel_status}")
37 print(f"Total Fees Paid: Rs. {total_fees_paid}")
38
39 # Fee update simulation
40 fee_updated = 50000
41 total_fees_paid += fee_updated
42 print(f"Fee updated: Rs. {fee_updated} added. Total fees paid: Rs. {total_fees_paid}")
43
44 fee_updated = 25000
45 total_fees_paid += fee_updated
46 print(f"Fee updated: Rs. {fee_updated} added. Total fees paid: Rs. {total_fees_paid}")
47
48 # =====

```

### Requirements

- Write a Python program for an `sru_student` class with the following:
  - Attributes: `name`, `roll_no`, `hostel_status`
  - Methods: `fee_update()` and `display_details()`
- Manually write **inline comments** for each line or logical block
- Use an AI-assisted tool to automatically add inline comments
- Compare **manual comments** with **AI-generated comments**
- Identify missing, redundant, or incorrect AI comments

### Expected Output

- Python class with manually written inline comments
- AI-generated inline comments added to the same code
- Comparative analysis of manual vs AI comments
- Critical discussion on strengths and limitations of AI-generated comments

**Explanation :** In this task, we create a class `sru_student` with attributes like `name`, `roll number`, and `hostel status`, and methods to update fees and display details. First, the code is written with detailed manual inline comments. Then AI-generated comments are written for the same code. Finally, we compare both comment styles and analyze missing, redundant, and incorrect comments.

### Task 3: Module-Level and Function-Level Documentation

#### Scenario

You are building a small calculator module that will be shared across multiple projects and requires structured documentation.

**Prompt:** Create a Python calculator module containing four functions:

- `add(a, b)`
- `subtract(a, b)`
- `multiply(a, b)`

- **divide(a, b)**

1. First, manually write NumPy Style docstrings for each function including:

- Parameters
- Returns
- Raises (for divide by zero)
- Example

2. Then generate:

- A module-level docstring
- AI-generated NumPy Style function-level docstrings (without modifying function logic)

3. Provide a structured comparison evaluating:

- Structure
- Accuracy
- Completeness
- Readability
- Professional quality

Ensure the code runs without errors.

Code :

```
1 """
2 Calculator module providing basic arithmetic operations.
3
4 This module contains four fundamental arithmetic functions: addition, subtraction,
5 multiplication, and division. Each function accepts two numeric arguments and returns
6 the result of the respective operation. The divide function includes error handling
7 for division by zero.
8
9 Functions
10 -----
11 add : Add two numbers
12 subtract : Subtract second number from first
13 multiply : Multiply two numbers
14 divide : Divide first number by second with zero-check
15 """
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	<p>structure, accuracy, completeness, readability, and professional quality.</p> <hr/> <p><b>Additional Requirement</b></p> <ul style="list-style-type: none"><li>• Push the complete project documentation as a <b>.md file</b> to a GitHub repository</li><li>• Ensure documentation covers module overview and function descriptions</li></ul> <p><b>Note: Report should be submitted a word document for all tasks in a single document with prompts, comments &amp; code explanation, and output and if required, screenshots</b></p>	
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