SCHOOL OF CO	MPUTER SCIENCE A	AND ARTIFICIAL	DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
ProgramName: <mark>B. Tech</mark>		Assignment Type: Lab		AcademicYear:2025-2026
CourseCoordinatorName		Venkataramana	Veeramsetty	ı
Instructor(s)Name			aramana (Co-ordin	ator)
		Dr. T. Sampat		
		Dr. Pramoda Patro		
		Dr. Brij Kisho	or Tiwari	
		Dr.J.Ravichan	der	
		Dr. Mohamma	and Ali Shaik	
		Dr. Anirodh K	Kumar	
		Mr. S.Naresh	Kumar	
		Dr. RAJESH	VELPULA	
		Mr. Kundhan Kumar Ms. Ch.Rajitha Mr. M Prakash		
		Mr. B.Raju		
		Intern 1 (Dharma teja) Intern 2 (Sai Prasad)		
		Intern 3 (Sow)		
		NS_2 (Mounika)		
CourseCode	24CS002PC215	CourseTitle	AI Assisted Cod	ling
Year/Sem	II/I	Regulation	R24	
Date and Day of Assignment	Week4 - Wednesday	Time(s)		
Duration	2 Hours	Applicableto Batches		
AssignmentNun	 nber: <mark>9.3</mark> (Present as	l <mark>signment numbe</mark>	er)/ 24 (Total numbe	er of assignments)
O.No. Que	estion			Expected

Q.No.	Question	ExpectedTi me to complete
1	Lab 9: Documentation Generation: Automatic documentation and code comments Lab Objectives:	
		Week4 - Wednesday

inline comments.

- To practice generating function-level and module-level docstrings automatically.
- To evaluate the quality, accuracy, and limitations of AI-generated documentation.
- To develop a small automated tool for documentation generation in Python..

Lab Outcomes (LOs):

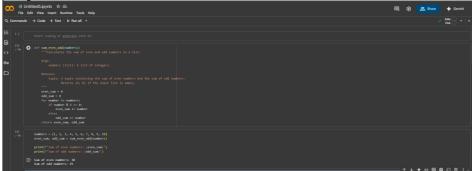
After completing this lab, students will be able to:

- Apply AI-assisted coding tools to generate docstrings and inline comments for Python code.
- Critically analyze AI-generated documentation for correctness, completeness, and readability.
- Create structured documentation (function-level, module-level) following standard formats.
- Design and implement a mini documentation generator tool to automate code commenting and docstring creation.

Task Description#1 Basic Docstring Generation

- Write python function to return sum of even and odd numbers in the given list.
- Incorporate manual **docstring** in code with Google Style
- Use an AI-assisted tool (e.g., Gemini, Copilot, Cursor AI) to generate a docstring describing the function.
- Compare the AI-generated docstring with your manually written one.

Expected Outcome#1:



Task Description#2 Automatic Inline Comments

- Write python program for sru_student class with attributes like name, roll no., hostel status and fee update method and display details method.
- Write comments manually for each line/code block
- Ask an AI tool to add inline comments explaining each line/step.
- Compare the AI-generated comments with your manually written one.

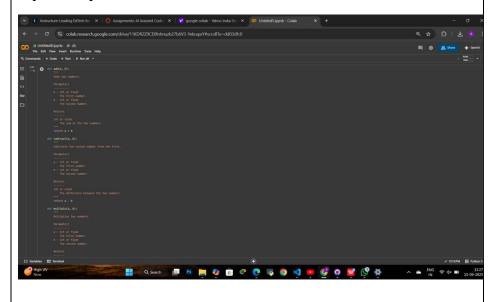
Expected Output#2:

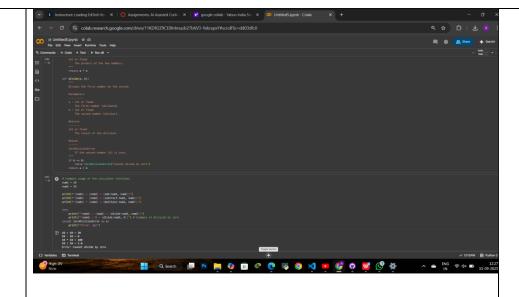


Task Description#3

- Write a Python script with 3–4 functions (e.g., calculator: add, subtract, multiply, divide).
- Incorporate manual **docstring** in code with NumPy Style
- Use AI assistance to generate a module-level docstring + individual function docstrings.
- Compare the AI-generated docstring with your manually written one.

Expected Output#3:





Push documentation whole workspace as .md file in GitHub Repository

Note: Report should be submitted a word document for all tasks in a single document with prompts, comments & code explanation, and output and if required, screenshots