SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE			DEPARTMENT OF COMPUTER SCIENCE ENGINEERING			
ProgramName: <mark>B. Tech</mark>		Ass	ssignment Type: Lab		AcademicYear:2025 -2026	
CourseCoordinatorName		Venkataramana Veeramsetty				
Instructor(s)Name		<ol> <li>Dr. Mohammed Ali Shaik</li> <li>Dr. T Sampath Kumar</li> <li>Mr. S Naresh Kumar</li> <li>Dr. V. Rajesh</li> <li>Dr. Brij Kishore</li> <li>Dr Pramoda Patro</li> <li>Dr. Venkataramana</li> <li>Dr. Ravi Chander</li> <li>Dr. Jagjeeth Singh</li> </ol>				
CourseCode	24CS002PC215	CourseTitle		AI Assisted Co	ding	
Year/Sem	II/I	Regulation		<mark>R2</mark> 4		
Date and Day of Assignment	Week2-Tuesday	Time(s)				
Duration	2 Hours	Applicableto Batches	0	24CSBTB01 To	o 24CSBTB39	
AssignmentNumber: 3.2 (Present assignment number)/24 (Total number of assignments)						

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# Lab Objectives:

- To understand how prompt structure and wording influence AI-generated code.
- To explore how context (like comments and function names) helps AI generate relevant output.
- To evaluate the quality and accuracy of code based on prompt clarity.
- To develop effective prompting strategies for AI-assisted programming.

## Lab Outcomes (LOs):

After completing this lab, students will be able to:

- Generate Python code using Google Gemini in Google Colab.
- Analyze the effectiveness of code explanations and suggestions by Gemini.
- Set up and use Cursor AI for AI-powered coding assistance.
- Evaluate and refactor code using Cursor AI features.
- Compare AI tool behavior and code quality across different platforms.

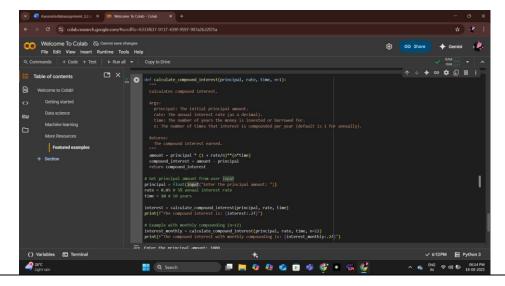
## Task Description#1

• Ask AI to write a function to calculate compound interest, starting with only the function name. Then add a docstring, then input-output example

### **Expected Output#1**

Comparison of AI-generated code styles

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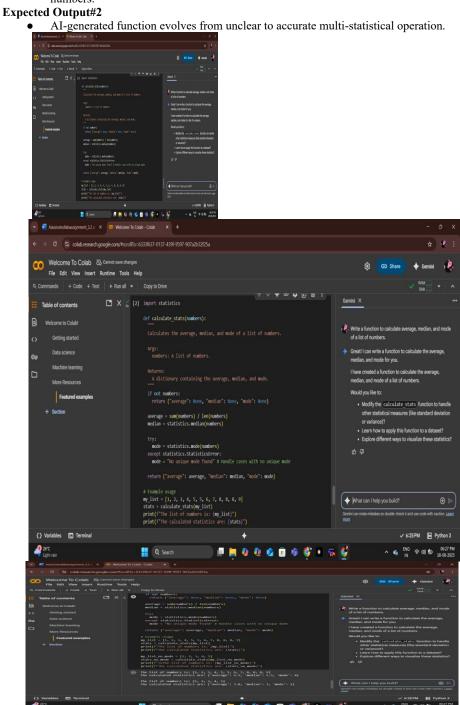


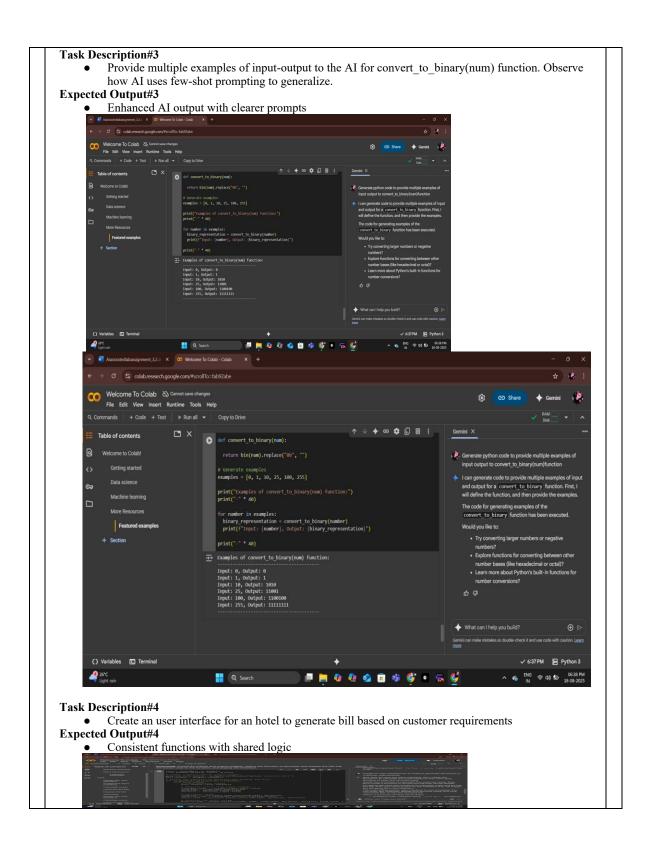
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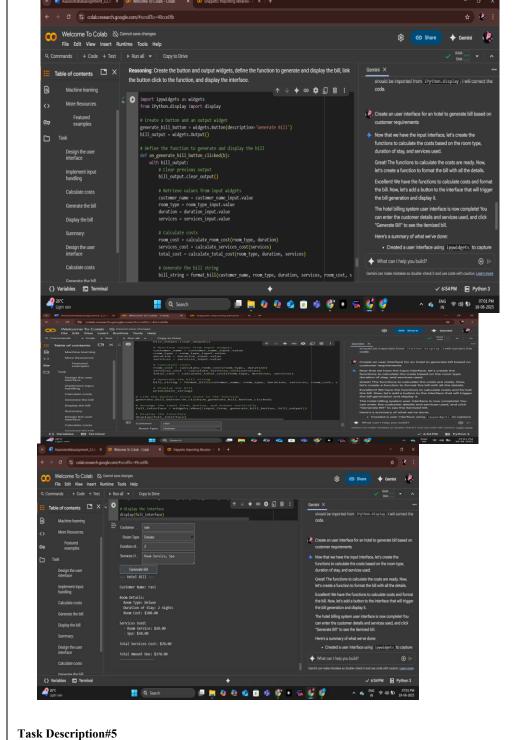


# Task Description#2

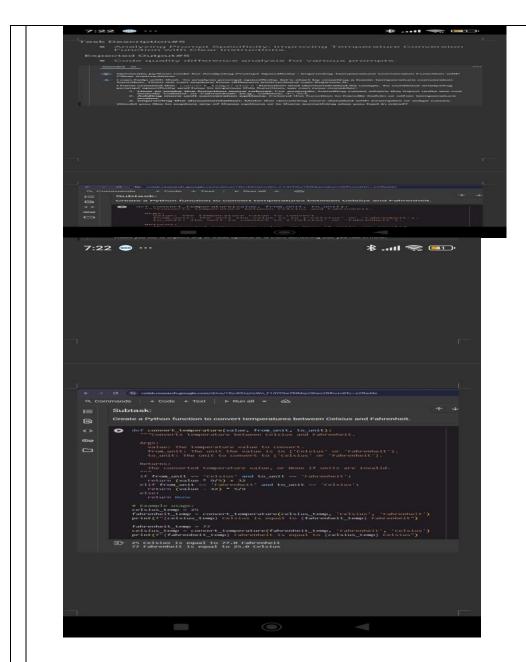
Do math stuff, then refine it to: # Write a function to calculate average, median, and mode of a list of numbers.







- Analyzing Prompt Specificity: Improving Temperature Conversion Function with Clear Instructions **Expected Output#5** 
  - Code quality difference analysis for various prompts



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

# **Evaluation Criteria:**

Criteria	Max Marks
Task#1	0.5
Task#2	0.5
Task #3	0.5
Task #4	0.5
Task #5	0.5
Total	2.5 Marks