SCHOOL OF	COMPUTER SCIENCE INTELLIGENCE	AND ARTIFICIAL	ND ARTIFICIAL DEPARTMENT OF COMPUT ENGINEERING	
ProgramName: <mark>B. Tech</mark>		Assignm	ent Type: Lab	AcademicYear:2025-2026
CourseCoordinatorName		Venkataramana	Venkataramana Veeramsetty	
Instructor(s)	Name			
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			Mr. B.Raju	
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		•	Intern 2 (Sai Prasad)	
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		NS_2 (Moun	11Ka)	
CourseCode	24CS002PC215	CourseTitle	AI Assisted Coo	ling
Year/Sem	II/I	Regulation	R24	
Date and Da of Assignme		Time(s)		
Duration	2 Hours	Applicableto Batches		
Assignment	Number: <mark>4.3</mark> (Present a	assignment numbe	er)/ 24 (Total numbe	er of assignments)
Q.No.	Question			Expected
-	4 2			me
				to
				complete
	Lab 4: Advanced Prompt	Engineering – Zero-sho	ot, One-shot, and Few-	shot Techniques Week2 -
1		. .	•	Wednesda
	Lab Objectives:			Wednesda

- To explore and apply different levels of prompt examples in AI-assisted code generation.
- To understand how zero-shot, one-shot, and few-shot prompting affect AI output quality.
- To evaluate the impact of context richness and example quantity on AI performance.
- To build awareness of prompt strategy effectiveness for different problem types.

Lab Outcomes (LOs):

After completing this lab, students will be able to:

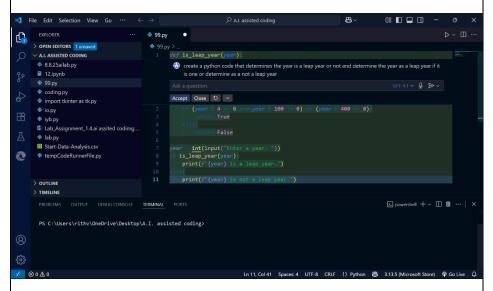
- Use zero-shot prompting to instruct AI with minimal context.
- Use one-shot prompting with a single example to guide AI code generation.
- Apply few-shot prompting using multiple examples to improve AI responses.
- Compare AI outputs across the three prompting strategies.

Task Description#1

 Zero-shot: Prompt AI to write a function that checks whether a given year is a leap year.

Expected Output#1

Promt: Create a Python code that determines the year is a leap year or not and determine it as a leap year if it is one or determine as a not a leap year



Task Description#2

 One-shot: Give one input-output example to guide AI in writing a function that converts centimetres to inches.

Expected Output#2

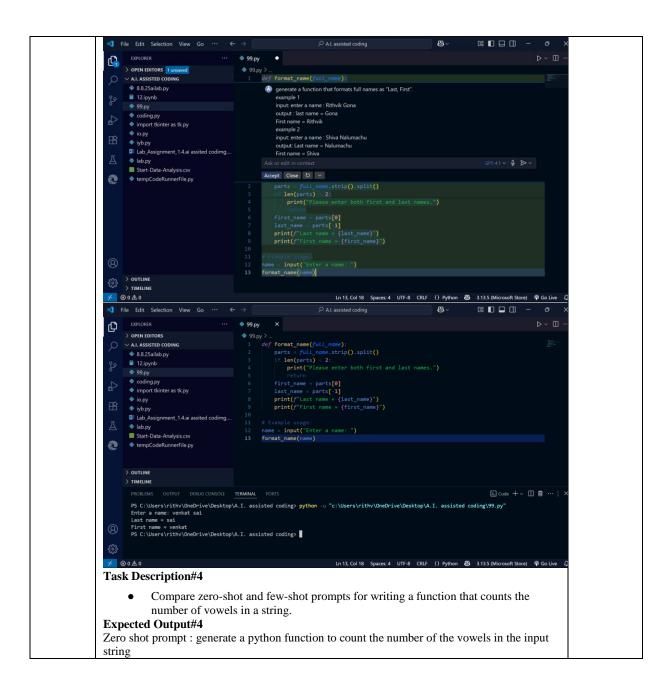
Prompt: create a python function that converts centimetres to inches.

like 2.5centimeters = 1 inches

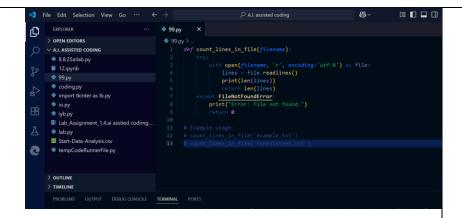
exapmle

input: enter the desired value in centimeters to convert into inches = 2.54 output: the entered value of 2.54 centimeters in inches is = 1 inch









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 Mark
Zero Shot (Task #1)	0.5
One Shot (Task#2)	0.5
Few Shot (Task#3 & Task #5)	1.0
Comparison (Task#4)	0.5
Total	2.5 Marks