



SR UNIVERSITY
Campus Warangal

Program: II - B. Tech (CS& AI)

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Department: Computer Science and AI

Semester: I

AI Assisted Coding - Lab Test 1

Instructions:

- 1- Use AI Tools like VScode+Github Copilot and Cursor AI for code generation
- 2- This Assignment will be evaluated for 15 Marks (10 Marks for Tasks and 5 Marks for viva based on regular lab activities)
- 3- Students need to submit assignment through canvas before due date
- 4- Students who are absent for lab will receive 0 Marks

Q1. Context-Aware Prompt Design

[5 M]

- Task: Write two different prompts to get a summarized news report from an AI model.
 - One with poor context.

```
1 import openai
2
3 response = openai.ChatCompletion.create(
4     model="gpt-4",
5     messages=[
6         {"role": "user", "content": "Summarize today's news."}
7     ]
8 )
9
10 print(response.choices.message['content'])
11
```

Output:

```
PS C:\Users\USER> & C:/Users/USER/anaconda3/python.exe "c:/Users/USER/OneDrive/Desktop/SRU/AI ASSISTED/import requests
Enter a topic: & C:/Users/USER/anaconda3/python.exe "c:/Users/USER/OneDrive/Desktop/SRU/AI ASSISTED/import openai.py"
No news found for this topic.
PS C:\Users\USER>
```

- One with detailed context (e.g., specify tone, target audience, and summary length).

```
1 import openai
2
3 prompt = (
4     "Please generate a concise news summary (250 words) of today's major headlines "
5     "in a neutral, informative tone, tailored for busy professionals in the finance industry. "
6     "Ensure the overview covers key global market developments, major political events affecting economies, "
7     "and significant corporate announcements. Highlight essential facts and avoid sensational language."
8 )
9
10 response = openai.ChatCompletion.create(
11     model="gpt-4",
12     messages=[
13         {"role": "user", "content": prompt}
14     ]
15 )
16
17 print(response.choices.message['content'])
18
```

Output:

```
PS C:\Users\USER> & C:/Users/USER/anaconda3/python.exe "c:/Users/USER/OneDrive/Desktop/SRU/AI ASSISTED/import openai.py"
Traceback (most recent call last):
  File "c:/Users/USER/OneDrive/Desktop/SRU/AI ASSISTED/import openai.py", line 1, in <module>
    import openai
ModuleNotFoundError: No module named 'openai'
PS C:\Users\USER> █
```

- Compare the outputs and explain which is more effective and why.

Q2. Multi-Turn Prompting Design

[5 M]

- Scenario: You are designing a chatbot for customer support.
- Task: Write a sequence of **3 prompts** where each uses the **previous response as context** (conversation continuity).

Prompt 1 (Initial User Message)

User:

"I received my order, but one item is missing. Can you help?"

Prompt 2 (Follow-up with Context)

User:

"Earlier, I mentioned an item was missing from my order. The missing item is the wireless mouse from order #12345. What steps should I take next?"

Prompt 3 (Further Follow-up with Context)

User:

"Thanks for the return instructions. Also, can you tell me how long it will take to receive the replacement wireless mouse?"

- Evaluate how context improves the AI's accuracy.