**ASSIGNMENT 4.3**

**TASK 1:**  
• Zero-shot: Prompt AI to write a function that checks whether a given year is a leap  
year.  
Expected Output#1  
• AI-generated function with no examples provided

**CODE:**

A computer screen with colorful text

Description automatically generated

**OBSERVATION:** In this code we can observer that the code it self create it’s own input and printed the 4 output.

**TASK 2:**

• One-shot: Give one input-output example to guide AI in writing a function that  
converts centimeters to inches.  
Expected Output#2• Function with correct conversion logic  
 **A screenshot of a computer program

Description automatically generated**

OBSERVATION: In this code we can observer that the code it self create it’s own input and printed the one output.

**TASK 3:**  
• Few-shot: Provide 2–3 examples to generate a function that formats full names as  
“Last, First”.  
Expected Output#3  
• Well-structured function respecting the examples

CODE:  
A screen shot of a computer program

Description automatically generated

**OBSERVATION:** In this code we can observer that the code it self create it’s own input and printed the output.

**TASK 4:**

• Compare zero-shot and few-shot prompts for writing a function that counts the  
number of vowels in a string.  
Expected Output#4  
• Functional output and comparative reflection

|  |  |
| --- | --- |
| **ZERO-SHOT** | **FEW-SHOT** |
| **CODE:** | **CODE:** |

**OBSERVATION:** In this code we can observer that the code it self create it’s own input and printed the output. Zero-shot I got one output . In few -shot I got 4 output .

**TASK 5:**

• Use few-shot prompting to generate a function that reads a .txt file and returns the  
number of lines.  
Expected Output#5  
• Working file-processing function with AI-guided logic

CODE:

**A screen shot of a computer program

Description automatically generated**

**OBSERVATION:** In this code it was created 3 files **. File one it given 3 txt line, File 2 given 0 txt line, File 3 was doesn’t created.**