Assignment Report

Course: Ai Assisted Coding

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Task 1 — Zero-shot: Leap Year

```
C: > Users > aakar > OneDrive > Documents > Online gdb >  task_1.py > ...
    def is_leap_year(year: int) -> bool:
        return (year % 4 == 0) and (year % 100 != 0 or year % 400 == 0)

# User input
year = int(input("Enter a year: "))
print(f"Input: {year} > Output: {is_leap_year(year)}")
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE <u>TERMINAL</u> PORTS

Enter a year: 2024

Input: 2024 → Output: True

PS C:\Users\aakar\AppData\Local\Programs\Microsoft VS Code>
```

Task 2 — One-shot: cm → inches

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE <u>TERMINAL</u> PORTS

Enter length in centimeters: 5.08

Input: 5.08 cm → Output: 2.0 inches

PS C:\Users\aakar\AppData\Local\Programs\Microsoft VS Code>
```

Task 3 — Few-shot: Format name

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE <u>TERMINAL</u> PORTS

Enter full name: John Doe

Input: John Doe → Output: Doe, John
PS C:\Users\aakar\AppData\Local\Programs\Microsoft VS Code>
```

Task 4 — Vowel Counter

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE <u>TERMINAL</u> PORTS

Enter a string: qwertyuiop

Input: qwertyuiop → Output: 4 vowels

PS C:\Users\aakar\AppData\Local\Programs\Microsoft VS Code>
```

Task 5 — Few-shot: Count lines in file

Output: