S

1 Z ro-shot: Leap Year

```
C: > Users > aakar > OneDrive > Documents > Online gdb >  task_1.py > ...

1   def is_leap_year(year: int) -> bool:
2     return (year % 4 == 0) and (year % 100 != 0 or year % 400 == 0)
3
4   # User input
5   year = int(input("Enter a year: "))
6   print(f"Input: {year} → Output: {is_leap_year(year)}")
7
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Enter a year: 2024

Input: 2024 → Output: True

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

2 One-shot: cm → inches

```
C: > Users > aakar > OneDrive > Documents > Online gdb > → task_1.py > ...

def cm_to_inches(cm: float) -> float:

return cm / 2.54

# User input

cm = float(input("Enter length in centimeters: "))

print(f"Input: {cm} cm → Output: {cm_to_inches(cm)} inches")

7
```

Task — e

Output:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 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>

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Task — w

3 F -shot: Format name

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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

4 Vo el Counter

Task — ew

Output:

```
Enter a string: qwertyuiop
Input: qwertyuiop → Output: 4 vowels
PS C:\Users\aakar\AppData\Local\Programs\Microsoft VS Code>
```

5 F -shot: Count lines in file

Output:

```
Enter file name: qwerty1
Traceback (most recent call last):
    File "c:\Users\aakar\OneDrive\Documents\Online gdb\task_1.py", line 12, in <module>
        print(f"Input: {file_name} → Output: {count_lines_in_file(file_name)} lines")

    File "c:\Users\aakar\OneDrive\Documents\Online gdb\task_1.py", line 6, in count_lines_in_file
        raise FileNotFoundError(f"No such file: {p}")

FileNotFoundError: No such file: qwerty1
PS C:\Users\aakar\AppData\Local\Programs\Microsoft VS Code>
```