**AI ASSISTED CODING**

**LAB ASSIGNMENT – 12.4**

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**24BTCAICYB01-2-1**

**#TASK-1**

**Write a Python implementation of Bubble Sort.**

**PROMPT:**

C:\Users\WIN10\Pictures\Screenshots\Screenshot (449).png

**OUTPUT:**

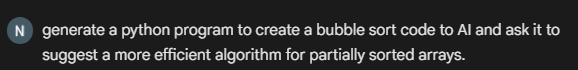
**A black background with white numbers

AI-generated content may be incorrect.**

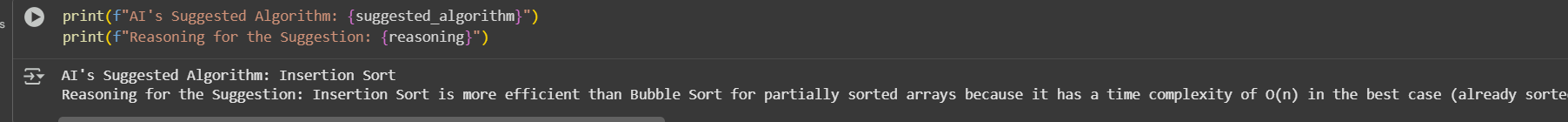
**#TASK-2**

**Provide Bubble Sort code to AI and ask it to suggest a more efficient algorithm for partially sorted arrays.**

**PROMPT:**



**OUTPUT:**

****

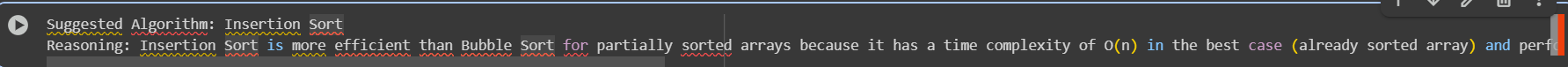
**#TASK-3**

Implement both **Linear Search** and **Binary Search**

**PROMPT:**

C:\Users\WIN10\Pictures\Screenshots\Screenshot (451).png

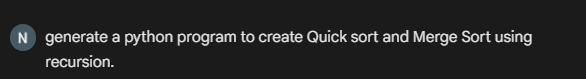
**OUTPUT:**

****

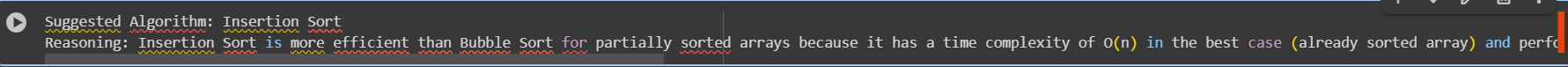
**#TASK-4**

**Implement Quick Sort and Merge Sort using recursion**

**PROMPT:**



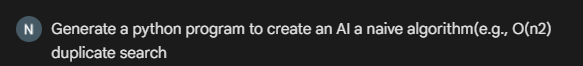
**OUTPUT:**

****

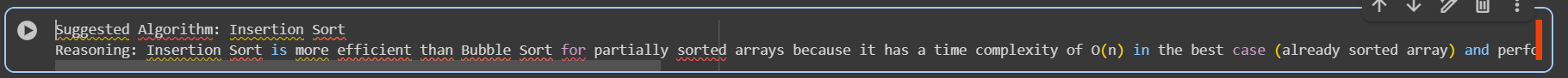
**#TASK-5**

**Give AI a naive algorithm (e.g., O(n²) duplicate search).**

**PROMPT:**



**OUTPUT:**

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