**AI ASSISTED CODING**

**LAB ASSIGNMENT – 11.4**

**NAVYA MASADI**

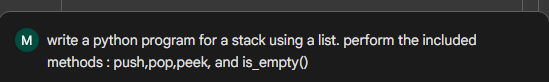
**2403A53020**

**24BTCAICYB01-2-1**

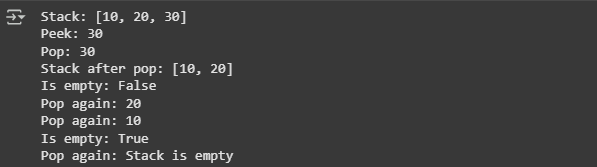
**#TASK-1**

* : Use AI to help implement a **Stack** class in Python with the following operations: push(), pop(), peek(), andis\_empty().

**PROMPT:**



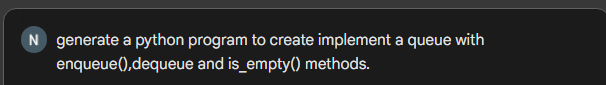
**OUTPUT:**

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**#TASK-2**

**Implement a Queue with enqueue(), dequeue(), and is\_empty() methods**

**PROMPT:**



**OUTPUT:**

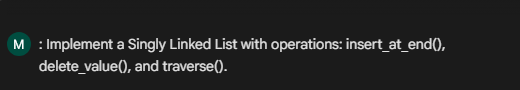
**A screenshot of a computer

AI-generated content may be incorrect.**

**#TASK-3**

* Implement a **Singly Linked List** with operations: insert\_at\_end(), delete\_value(), and traverse().

**PROMPT:**

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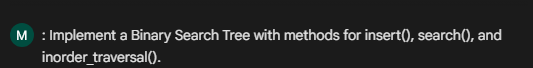
**OUTPUT:**

****

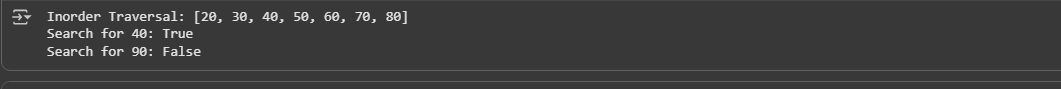
**#TASK-4**

**: Implement a Binary Search Tree with methods for insert(), search(), and inorder\_traversal().**

**PROMPT:**

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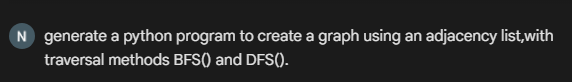
**OUTPUT:**



**#TASK-5**

**Implement a Graph using an adjacency list, with traversal methods BFS() and DFS().**

**PROMPT:**



**OUTPUT:**

**A screenshot of a computer

AI-generated content may be incorrect.**

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