```
IDLE Shell 3.13.5                                                    —    □    ×

File  Edit  Shell  Debug  Options  Window  Help

    Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit (
    AMD64)] on win32
    Enter "help" below or click "Help" above for more information.
>>>
    ======================= RESTART: C:/ayushsr/AI/lab 3.py =======================
    Enter the start node: A
    Enter the goal node: E
    Depth 0: Traversed path: ['A']
    Depth 1: Traversed path: ['A', 'B', 'C']
    Depth 2: Traversed path: ['A', 'B', 'D', 'E']
    Goal node 'E' found! Path: ['A', 'B', 'D', 'E']
```

Lab 3

```
IDLE Shell 3.13.5                                                    —    □    ∧

File  Edit  Shell  Debug  Options  Window  Help

    Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit ( ▲
    AMD64)] on win32
    Enter "help" below or click "Help" above for more information.
>>>
    =================== RESTART: C:\ayushsr\AI\tower_of_honai.py ===================
    Move disk 1 from A to C
    Move disk 2 from A to B
    Move disk 1 from C to B
    Move disk 3 from A to C
    Move disk 1 from B to A
    Move disk 2 from B to C
    Move disk 1 from A to C
```

Lab 4 tower of Hanoi