# SUPERIOR UNIVERSITY

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**Section:AI(4A)**

**SUBJECT:PAI-Lab**

**SUBMITTED TO :Rasikh Ali**

**Water Jug Problem:-**

The Water Jug Problem is a classic problem in artificial intelligence and problem-solving techniques. It involves two jugs with different capacities and the objective of measuring a specific amount of water using these jugs. In this implementation, Depth-First Search (DFS) is used to find a solution.

**Output:**

```
PS E:\PAI\pai lab> & "C:/Users/Muhammad ilyas/AppData/Local/Programs/Python/Python312/python.exe"
Solution found:
(0, 0)
(0, 3)
(3, 0)
(3, 3)
(4, 2)
PS E:\PAI\pai lab>
```