**NAME :Dua zahra**

**Roll number:036**

**SUBJECT:PAI-Lab**

**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:**

