Lab 003

This program solves the **Water Jug Problem** using DFS (Depth First Search).  
We begin with two empty jugs and try different actions like filling, emptying, or pouring water between them.  
The program keeps track of visited states so it doesn’t repeat the same steps again and again.  
When the target amount of water is reached in any jug, the solution path is shown step by step.  
If no possible way is found, it simply says **no solution found**