Lab Sheet 4

1. Simulate the Water Jug Problem that follows the following rules in implementation

Instruction:

# Use a function is used to initialize thedictionary elements with a default value.

from collections import default dict

# jug1 and jug2 contain the value for max capacity in respective jugs and aim is the amount of water to be measured.

Ex: jug1, jug2, aim = 4, 3, 2

# Initialize dictionary with default value as false.

Eg: visited = default dict(lambda: False)

# Recursive function which prints the intermediate steps to reach the final solution and return boolean value: (True if solution is possible, otherwise False).

# amt1 and amt2 are the amount of water present in both jugs at a certain point of time.