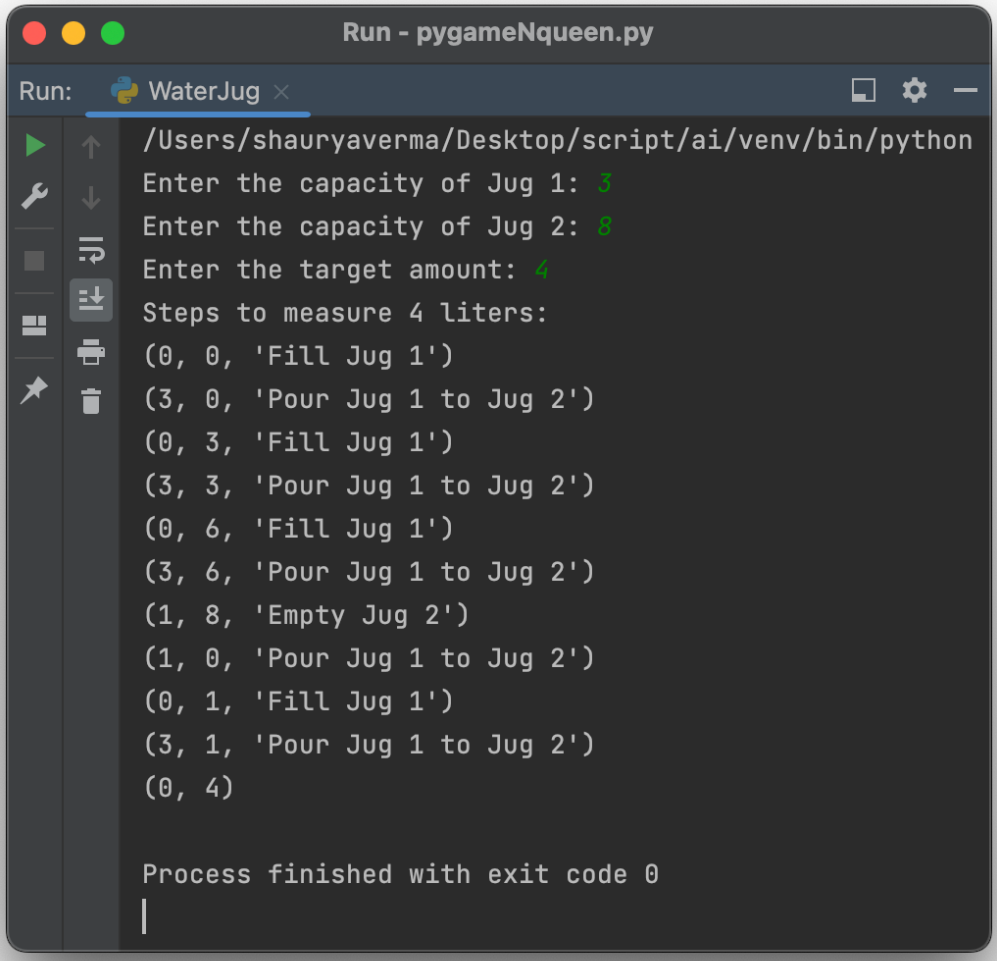
This is the fundamental challenge faced in Artificial Intelligence called the “WaterJug” Problem

Here, the system is provided with 2 jugs with variable capacity and provided with a desired amount of water required. The system needs to figure out how to fill and use the jugs in such a way such that by the end of the process, one of the Jugs is left with the exact amount of water desired.

For example, In a sample input of
Jug1 capacity – 3L
Jug2 capacity – 4L
Desired amount – 1L

The solution would be to fill Jug2 Completely,	(4L)
Pour it all into Jug1.	(4L -> 3L = 1L)
Jug2 will be left with 1L, solution found.	(1L)



Happy Coding!