EX.NO:3 DATE:

REG NO:220701004

DEPTH-FIRST SEARCH – WATER JUG PROBLEM

In the water jug problem in Artificial Intelligence, we are provided with two jugs: one having the capacity to hold 3 gallons of water and the other has the capacity to hold 4 gallons of water. There is no other measuring equipment available and the jugs also do not have any kind of marking on them. So, the agent’s task here is to fill the 4-gallon jug with 2 gallons of water by using only these two jugs and no other material. Initially, both our jugs are empty.

A screenshot of a computer

Description automatically generated

CODE:

A screenshot of a computer program

Description automatically generated

A screenshot of a computer code

Description automatically generated

OUTPUT:



RESULT:

Thus the DEPTH-FIRST SEARCH – WATER JUG PROBLEM has been executed successfully.