**Lab Task 3**

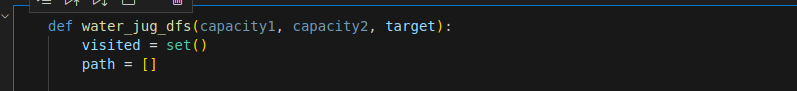
**Water Jug Problem with DFS**

**Faraz Ul Hassan**

**Programming for AI(Lab)**

**SU92-BSAIM-F23-134**

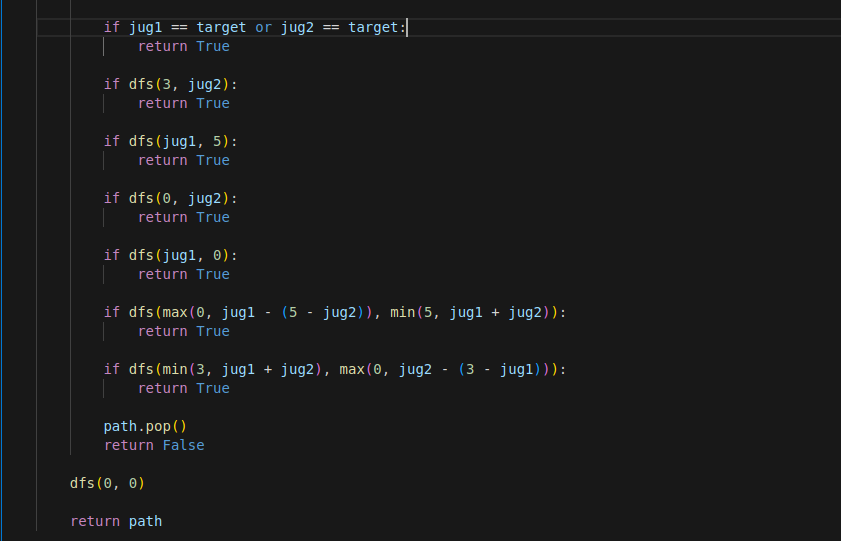
**AI-4C**



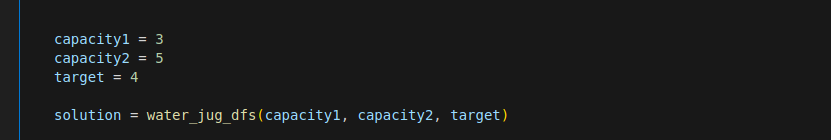
Firstly, we’ll make the function for both jug capacities and target and then two variables visited for steps and path which shows the which is used for target.

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Here, now we made the function within the function for both of jugs.

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These are the rules for filling and pouring and vacating the jugs.

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Now we provide the capacities and target and then run the function to find the path and the best solution.

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This will show if we achieved our target or we did not find any solution.

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Hence, we got the output.