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In [1]: # Roll no - 3378
# Name - Mrunmai Avinash Watane
# Class - TEIT

# Assignment no. 2 - Water-Jug Problem

# Problem Statement - Implement Water-Jug Problem using Rule Based Reasoning Technique
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In [2]: def pour(jug1,jug2):
max1,max2,fill=3,4,2
print("%d\t%d"%(jug1,jug2))
if jug2==fill:
    return
elif jug2!=0 and jug2==0:
    pour(0,jug1)
elif jug2==max2:
    pour(0,jug1)
elif jug1==fill:
    pour(jug1,0)
elif jug1<max1:
    pour(max1,jug2)
elif jug1<(max2-jug2):
    pour(0,(jug1+jug2))
else:
    pour(jug1-(max2-jug2),(max2-jug2)+jug2)

print("JUG1\tJUG2")
pour(0,0)
```

| JUG1 | JUG2 |
|------|------|
| 0 | 0 |
| 3 | 0 |
| 0 | 3 |
| 3 | 3 |
| 2 | 4 |
| 0 | 2 |

```
In [ ]:
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