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#Assignment2
#Roll No : 3350
#Name : Rajiya Mulla
#Write a program for Water jug problem
max1=int(input("capacity of JUG1 : "))
max2=int(input("capacity of JUG2 : "))
fill=int(input("how much liters of water fill in JUG1 : "))
def pour(jug1,jug2):
    print("%d\t%d" % (jug1,jug2))
    if jug2==fill:
       return
    elif jug2==max2:
       pour(0,jug1)
    elif jug1 != 0 and jug2==0:
        pour(0,jug1)
    elif jug1==fill:
       pour(jug1,0)
    elif jug1 < max1:
       pour(max1,jug2)
    elif jug1 <(max2-jug2):</pre>
       pour(0, (jug1+jug2))
    else:
        pour(jug1-(max2-jug2), (max2-jug2)+jug2)
print("JUG1\tJUG2")
pour(0,0)

    capacity of JUG1 : 3

     capacity of JUG2 : 4
     how much liters of water fill in JUG1 : 2
     JUG1
             JUG2
     0
             0
     3
             0
     0
             3
     3
             3
     2
             4
     0
             2
```

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