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In [1]: # Roll No : 3310
# Name : Srushti Prakash Bhoite
# Batch A
# Problem Statement : Write a program for Water jug problem
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In [3]: max1 = int(input("Enter the capacity of Jug1: "))
max2 = int(input("Enter the capacity of Jug2: "))
fill = int(input("Enter the capacity to be filled: "))
def pour(jug1,jug2):
    print("%d\t%d" % (jug1,jug2))
    if(jug2==fill):
        return
    elif jug1 !=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)
```

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Enter the capacity of Jug1: 3
Enter the capacity of Jug2: 4
Enter the capacity to be filled: 2
jug1    jug2
0        0
3        0
0        3
3        3
2        4
0        2
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In [ ]:
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