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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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