2810ICT Week1 PythonLab

1. Problem: Write Python code that reads two integers from the keyboard. If the first integer is in the range 1. . 100 and the first integer is less than the second integer OR if the first integer is at least twice the second integer and the second integer is not in the range -8..16 (with the exception it can be zero) print True. Otherwise print False. You must NOT use the Python if or if-else statement. All ranges are inclusive.

Input: 10 50   
Output: True   
Input: 20 5   
Output: False   
Input: 2 0   
Output: True

Solution:

nums = input("enter 2 numbers separated by space: ")  
  
a, b = nums.split(' ')  
  
c = int(a)  
d = int(b)  
  
while (c in range(1, 100) and c < d) or (c >= d \* 2 and (d not in range(-8, 16) or d == 0)):  
 print(True)  
 d = 12  
 c += 12  
while c == int(a) and d == int(b):  
 print(False)  
 c += d  
 d += c