Worksheet 9 - Booleans

1. Complete the Table below

Cond 1	Cond 2	Cond 1 and Cond 2	Cond 1 or Cond 2	not Cond 2
True	True	True	True	False
True	False	False	True	Ture
False	True	False	True	False
False	False	False	False	True

2. Assume the value of a is 1 and the value of b is 1.5, and determine whether the condition evaluates to True or False. Then, use a print function to confirm your answer.

A. `3 * a == 2 * b`

B. `((5 - a) * b) < 7`

C. `b <= 3`

D. `a ** b == b ** a`

E. `a ** (5 - 2) > 7`

F. `3e-2 < .01 * a`

G. `(a < b) or (b < a)`

H. `(a * a < b) or not(a * a < a)`

I. `not((a < b) and (a < (b + a)))`

J. `not(a < b) or not (a < (b + a))`

K. `((a == b) and (a * a < b * b)) or ((b < a) and (2 * a < b))`

L. `((a == b) or not (b < a)) and ((a < b) or (b == a + 1))`

```
T   r   u   e
T   r   u   e
T   r   u   e
F   a   l   s   e
F   a   l   s   e
F   a   l   s   e
T   r   u   e
T   r   u   e
F   a   l   s   e
F   a   l   s   e
F   a   l   s   e
T   r   u   e
```

3. Write a program that determines the larger of two numbers entered by a user. (for simplicity you can ignore the case when the numbers are equal)

Sample Output:

Enter the first number: 3
Enter the second number: 7
The larger value is 7.0.

4. Write a program to reverse a string. (There are several methods you can use but you have to use the list() function to do this)