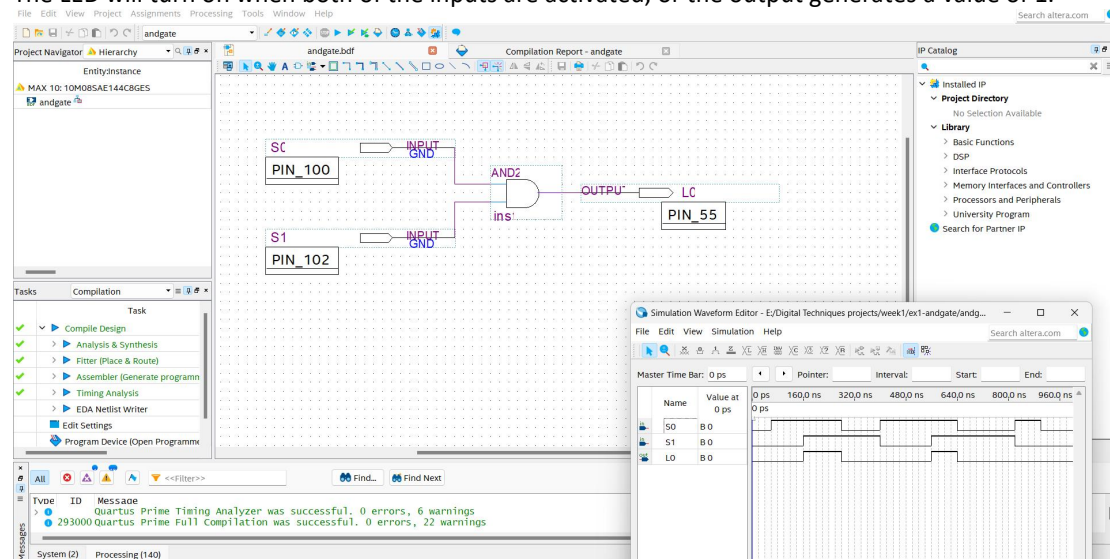Exercise 1:
The LED will turn on when both of the inputs are activated, or the output generates a value of 1.
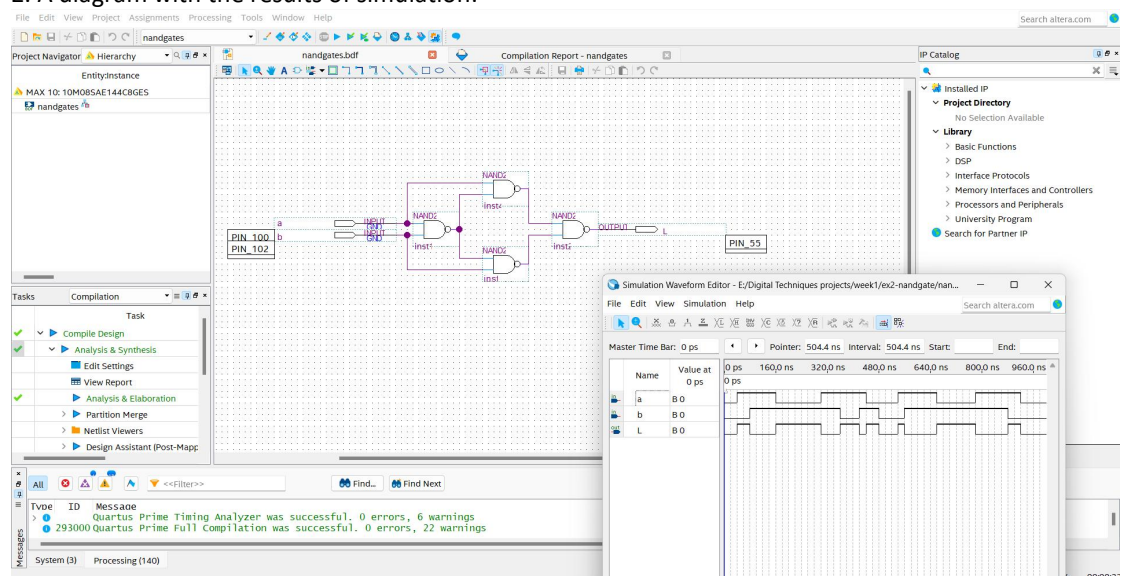

Exercise 2:
   1. Truth table:

a	b	L
0	0	0
0	1	1
1	0	1
1	1	0

   2. A diagram with the results of simulation:

3. Which logical operator is realized by the circuit you've just built? -> It's EXOR logical operator.