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In [4]:  #Name: Mohith Dande
         1QN:
         Given:
         A = 1
         B = 0
         1.(A AND B)
         1 AND 0 = 0

         2.(A OR B)
         1 OR 0 = 1

         3.(A XOR B)
         1 XOR 0 = 1

         4.(NOT A):
         NOT 1 = 0

         Final Results with A = 1, B = 0:
         | Operation | Result |
         | --------- | ------ |
         | A AND B   | 0      |
         | A OR B    | 1      |
         | A XOR B   | 1      |
         | NOT A     | 0      |


         Full Truth Table for 2 Inputs (A, B)
         | A | B | A AND B | A OR B | A XOR B | NOT A |
         | - | - | ------- | ------ | ------- | ----- |
         | 0 | 0 | 0       | 0      | 0       | 1     |
         | 0 | 1 | 0       | 1      | 1       | 1     |
         | 1 | 0 | 0       | 1      | 1       | 0     |
         | 1 | 1 | 1       | 1      | 0       | 0     |

In [1]:
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