|  |  |  |  |
| --- | --- | --- | --- |
| **Logical AND** | | | |
| **A** | **B** | **A AND B** | **True/false** |
| 0 | 0 | 0 | False |
| 0 | 1 | 0 | False |
| 1 | 0 | 0 | False |
| 1 | 1 | 1 | True |

|  |  |  |
| --- | --- | --- |
| **Logical NOT** | | |
| **A** | **NOT A** | **True/False** |
| 0 | 1 | True |
| 1 | 0 | False |

|  |  |  |  |
| --- | --- | --- | --- |
| **Logical NOR** | | | |
| **A** | **B** | **A NOR B** | **True/False** |
| 0 | 0 | 1 | True |
| 0 | 1 | 0 | False |
| 1 | 0 | 0 | False |
| 1 | 1 | 0 | False |

|  |  |  |  |
| --- | --- | --- | --- |
| **Logical OR** | | | |
| **A** | **B** | **A OR B** | **True/False** |
| 0 | 0 | 0 | False |
| 0 | 1 | 1 | True |
| 1 | 0 | 1 | True |
| 1 | 1 | 1 | True |

|  |  |  |  |
| --- | --- | --- | --- |
| **Logical NAND** | | | |
| **A** | **B** | **A NAND B** | **True/False** |
| 0 | 0 | 1 | True |
| 0 | 1 | 1 | True |
| 1 | 0 | 1 | True |
| 1 | 1 | 0 | False |

|  |  |  |  |
| --- | --- | --- | --- |
| **Logical XOR** | | | |
| **A** | **B** | **A XOR B** | **True/False** |
| 0 | 0 | 0 | False |
| 0 | 1 | 1 | True |
| 1 | 0 | 1 | True |
| 1 | 1 | 0 | False |