**Pin-Out Information for 7400-series Chips and Digital Board**

# **Here are the Pin-out numbers and schematics for all of the chips used in Lab 1:**



# Here is the pin out connections for the header on the digital switch board:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Digital Board Header Pin Assignment** | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | **Pin#** | **Description** |  |  |  |  |  | **Description** | **Pin#** |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | Switch #1 |  | o |  | o |  | Switch #2 | 2 |  |
|  | 3 | Switch #3 |  | o |  | o |  | Switch #4 | 4 |  |
|  | 5 | Switch #5 |  | o |  | o |  | Switch #6 | 6 |  |
|  | 7 | Switch #7 |  | o |  | o |  | Switch #8 | 8 |  |
|  | 9 | Ground |  | o |  | o |  | NC | 10 |  |
|  | 11 | Ground |  | o |  | o |  | NC | 12 |  |
|  | 13 | Ground |  | o |  | o |  | NC | 14 |  |
|  | 15 | Ground |  | o |  | o |  | NC | 16 |  |
|  | 17 | LED #1 |  | o |  | o |  | LED #2 | 18 |  |
|  | 19 | LED #3 |  | o |  | o |  | LED #4 | 20 |  |
|  | 21 | LED #5 |  | o |  | o |  | LED #6 | 22 |  |
|  | 23 | LED #7 |  | o |  | o |  | LED #8 | 24 |  |
|  | 25 | Ground |  | o |  | o |  | NC | 26 |  |
|  | 27 | Ground |  | o |  | o |  | NC | 28 |  |
|  | 29 | Ground |  | o |  | o |  | NC | 30 |  |
|  | 31 | Ground |  | o |  | o |  | NC | 32 |  |
|  | 33 | Clock |  | o |  | o |  | NC | 34 |  |
|  | 35 | NC |  | o |  | o |  | NC | 36 |  |
|  | 37 | NC |  | o |  | o |  | Pulse Button | 38 |  |
|  | 39 | NC |  | o |  | o |  | NC | 40 |  |