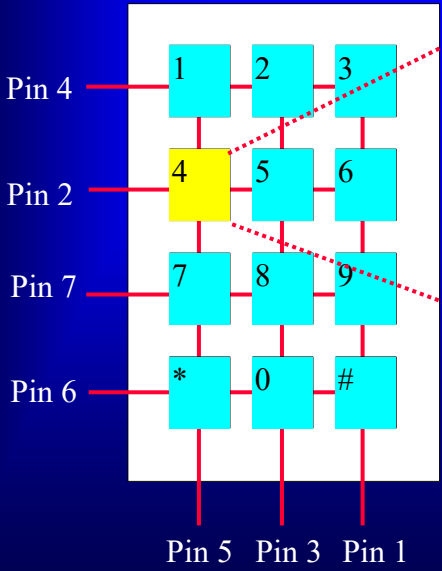
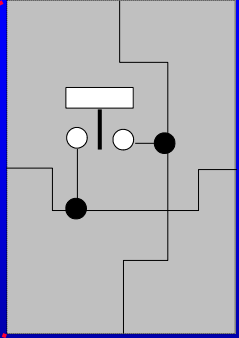


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Keypad






- Most keypads work the same way
 - > Only the pin numbers vary
 - > Many ways to solve the keypad problem

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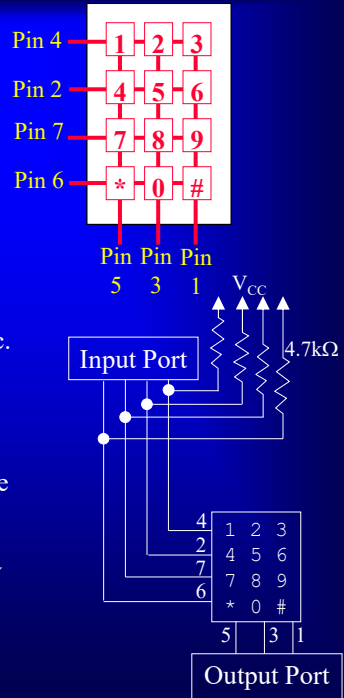
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Keypad Scan Algorithm

- Row wires are pulled-up
- Search for a key a column at a time
 - > Output a low to keypad pin 5 (high to pins 3 & 1) and test keys in first column (keypad pins 4, 2, 7, 6)
 - If pin 4 reads low, then key 1 was pressed
 - If pin 2 reads low, then key 4 was pressed, etc.
 - If none of the pins is low, go on
 - > Do the same for the other two columns
 - Output low to pin 3 (pins 5 & 1 high)
 - Output low to pin 1 (pins 5 & 3 high)
 - If a key is pressed in any of above, determine the key
 - > When a key press is determined, execute the appropriate code and wait for the key to be released before continuing scan
 - Remember that you **must** wait for a pressed key to be released to move on



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The End!

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