

Circuit #13 Relays

1.

How is this circuit, or a circuit like it, used in everyday life? Provide at least three examples.

Does your relay work?

If so, upload Circ11Expansion Code to your RedBoard, then add a button to your circuit and to the right of the schematic, make sure you include a pull up resistor (10K Ω resistor).

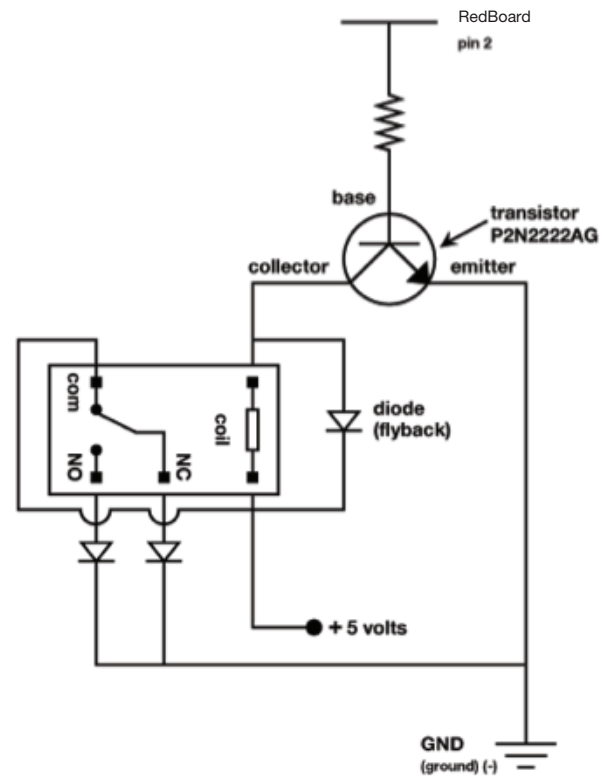
2.

Name one thing you would have to change to use a potentiometer to control the relay instead of a button, extra credit for writing what you would need to add in the code as well. Use English, not code.

3.

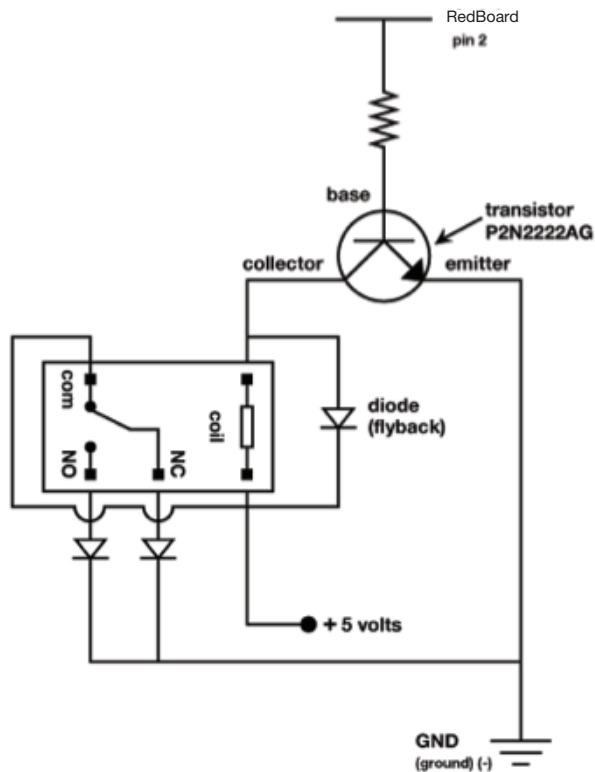
If the NO in the relay stands for Normally Open, what do you think NC stands for?

Circuit:



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Circuit:



4.

Draw a logic flow chart of the circuit here:

5.

Imagine your perfect relay machine. What two things would your relay switch back and forth between and why? Get creative. Example: a soft serve ice cream machine and an electric caramel pump so that making sundaes would be a little less work and give you more time to eat them.

6.

Draw one example of how this circuit could be used in everyday life. Label all components and give it a title.