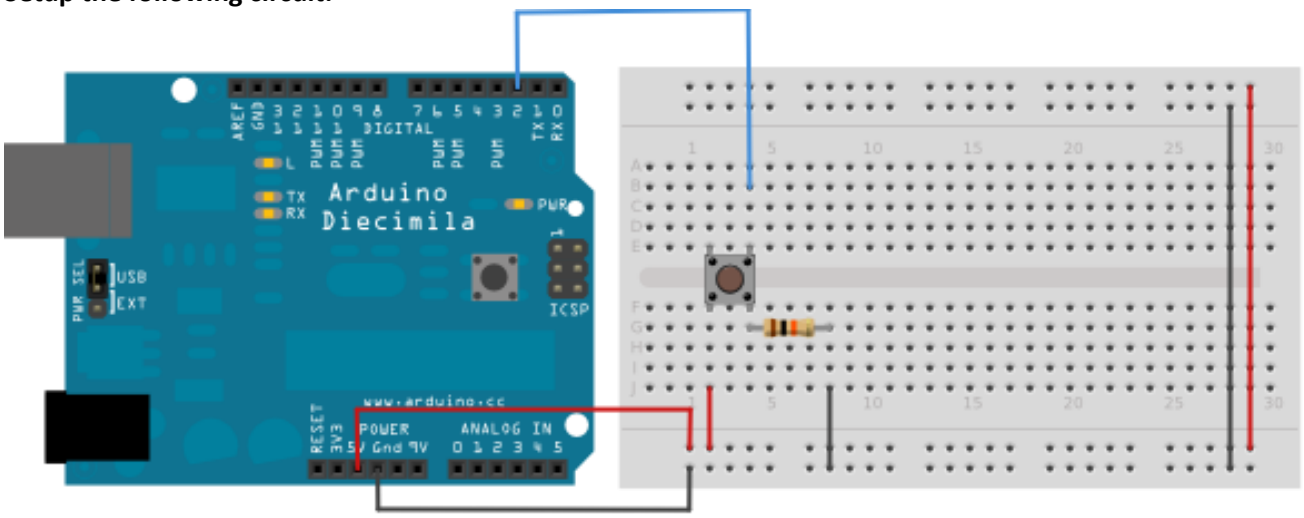
MONITORING A BUTTON STATE

Setup the following circuit:



Now we will write the program that reads a digital input through pin 2, prints the result to a serial monitor (which monitors any input coming in).

```
// digital pin 2 has a pushbutton attached to it. Give it a name:
int pushButton = 2;

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
  // make the pushbutton's pin an input:
  pinMode(pushButton, INPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input pin:
  int buttonState = digitalRead(pushButton);
  // print out the state of the button:
  Serial.println(buttonState);
  delay(1);        // delay in between reads for stability
}
```

Verify the program and **Upload** it to the Arduino.

Now click **Tools… Serial Monitor** You will see a stream of 0s being printed.

When you click the button, you should see a stream of 1s being printed.

COOL?
super cool.