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|  | Build a circuit that contains two push buttons, an LED, and any other basic components you think you need. |  |
|  | The LED should only light when both push buttons are pressed. Only use your Arduino for power and ground. |  |
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|  | #include <Servo.h> |  |
|  |  |  |
|  | int sensorValue; //value of potentiometer, 0 - 1023 |  |
|  | int analogInPin = A0; //Arduino pin connected to potentiometer |  |
|  | int analogOutPin = 6; //Arduino pin connected to LED |  |
|  |  |  |
|  | Servo myLED; //LED controlled by servo library |  |
|  |  |  |
|  | void setup(){ |  |
|  | } |  |
|  |  |  |
|  | void loop(){ |  |
|  | sensorValue = analogRead(analogInPin); |  |
|  | sensorValue = map(sensorValue, 0, 1023, 0, 225); //analogRead ranges from 0 to 1023; analogWrite ranges from 0 to 255; this maps the sensorValue to the lower output range |  |
|  | analogWrite(analogOutPin,sensorValue); |  |
|  | } |  |

