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Lab 2

1. V=IR

V/R = I

5 volts/(1x10^-6)ohms = I

I = 5,000,000 amps

1. V=IR

V/I = R

3.3 volts / (10 x 10^-6) = 330,000 ohms

1. V=IR

V/I = R

2.9 volts / (10 x 10^-6) = 290,000 ohms

1. 33K for red, or 336

29K for green, or 296

|  |  |  |
| --- | --- | --- |
| A | B | Y |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

1. When the inputs were “floating” the LED would flicker between on and off.
2. The work was demonstrated to the instructor.
3. Random IC: I believe the letter was B. The behavior was that of an XOR gate.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | X | Y |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 | 1 |

1. From the looks of it, this circuit completes the OR operation.