

Computer Science 240

Assignment for Lab 1

Due: **Before** lab on Wednesday, September 12

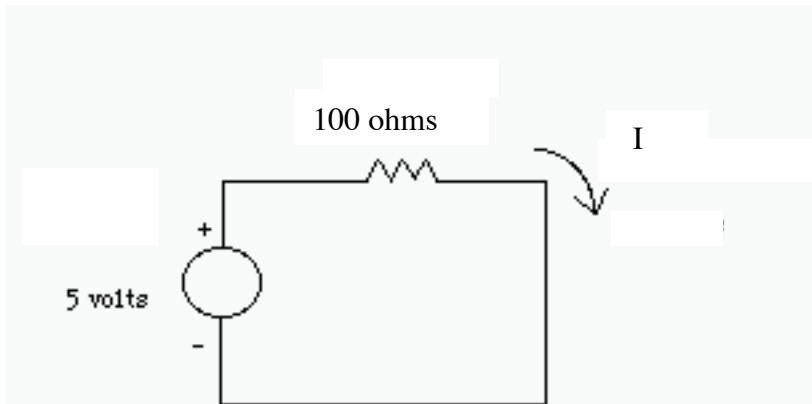
Print out the Lab 1 notes and lab exercises. They are available from the CS 240 Lab Home page:

<http://cs.wellesley.edu/~cs240/lab>

Read the notes, and bring the notes and lab exercises to lab on Wednesday.

Refer to the notes to complete the lab assignment:

1. What is the value of the current I in the circuit below?



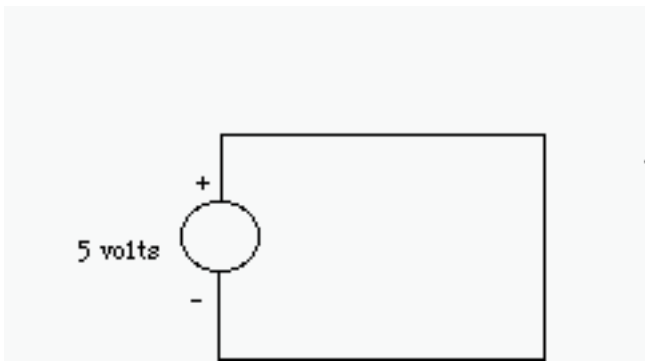
2. Indicate two points in the circuit across which you would measure 5 volts of potential difference (other than the terminals of the voltage source).

3. Is there more current in the resistor than in the rest of the circuit? Explain.

4. If the resistor had a larger value (voltage source the same) , would there be more or less current in the circuit?

5. If the voltage source had a larger value (resistor the same), would there be more or less current in the circuit?

6. What is wrong with the circuit on the next page?



7. Assume a resistor has the following bands of color:

Green
Orange
Yellow
Gold

What is the value of this resistor?

8. List the binary numbers 0 to 15 below:

0: 0 0 0 0

1:

2:

3:

4:

5:

6:

7:

8:

9:

10:

11:

12:

13:

14:

15:

Examine the table of numbers you have created. Make some observations about any patterns you observe: