

Review of WAM Chapter 2

The LED - what is it?

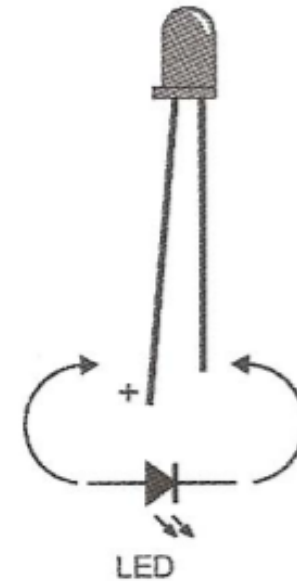
Schematic Symbol

Current Direction

Component lead identification

+ Anode, longer lead

- Cathode, flat piece of circle



Vdd - Positive (+5 in our circuits)

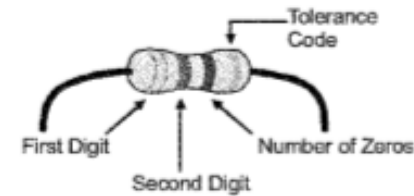
Vss - Negative (Ground)

Resistor - what is it?

Resistor Color Code

Why do we test components
before constructing circuits?

Digit	Color
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray
9	White



Variables:

Symbols (must start with a letter, may contain letters, numbers, and the underscore, max 32 characters, may not be reserved words) which may take on different values during program execution. They actually represent memory locations.

Declaration of a variable:

counter VAR Type

Type may be Bit, Nib, Byte, Word

0 to 1 15 255 65535

Output Commands:

HIGH n

LOW n

n is the port number

Delay execution of next command

PAUSE n

**n is the number of milliseconds and may be a variable,
a constant, or an expression.**

A millisecond (ms) is 1/1000 second.

**Pause 1000 would delay the execution
of the next command for 1 second.**

Programming concepts:

A loop is an instruction or group of instructions which is executed more than once.

A loop may be constructed in several ways. One is called the DO loop. This is potentially an infinite loop.

Do

...

...

...

Loop

Another construction is called the for/next loop. It is controlled by a variable.

For counter = 1 to 10

...

...

...

Next

More Advanced Programming concepts:

Loops:

Do {while |until condition}

...

Loop {while|until condition}