**Level 2: Using External Documentation**

On-Line Resource: <https://www.arduino.cc/en/Reference/HomePage>

1. Read the on-line documentation to become familiar with the Arduino IDE and command language.
2. Identify each program command and program statement in your blink program.
3. Use the on-line documentation to make notes on each command so you understand and can explain every part of your program.

The setup() function is called when a sketch starts. Use it to initialize variables, pin modes, start using libraries, etc. The setup() function will only run once, after each powerup or reset of the Arduino board.

Loop keeps repeating your sketch over and over again.

Digital write is the option for you to choose either a high or low current.

Pin mode allows you to program specific pins as a input or output device.

Delay is the amount of time you want the program to be paused for.

1. Explain the difference between a constant and a variable.

Constant are variables you do not plan on changing in your Arduino program and they are always the same.

A variable is a place to store a piece of data. It has a name, a value, and a type. They can change based on the circumstances.

1. Explain the following:
   1. Syntax error

A syntax error is when the characters aren’t correct.

* 1. Logic error

A logic error is when there is a error in the code.

* 1. Run-time error

Run time error is when there is an error when the program is running.