B.1 Arduino Web IDE

Level1: Understanding the Blink Example

1. DONE

Level 2: Using External Documentation

1: **FINISHED**

2: **pinMode**: Configures the specified pin to behave either as an input or an output.

**Output**: Pins configured as OUTPUT with pinMode() are said to be in a low-impedance state. This means that they can provide a substantial amount of current to other circuits.

**Input:** Arduino pins configured as **INPUT** with pinMode() are said to be in a high-impedance state. Pins configured as INPUT make extremely small demands on the circuit

3: void loop: This means that the following code will go forever on without stopping.

digital Write(LED\_BUILTIN, HIGH): This means that the built-in led gets powered on by this command.

delay(1000): This means the there is a delay until the next command. 1000 means 1 sec.

digital Write(LED\_BUILTIN, LOW): This means that the built-in led gets powered off by this command.

delay(1000): This means the there is a delay until the next command

4: A **constant** is a value that never changes and a variable is a value that can change depending on conditions.

5: The **difference between variables and constants** is that variables can change their value at any time but constants can never change their value.

Explain the following:

**Syntax error**: a piece of code incorrectly placed in a command or instruction that causes a failure in execution.

**Logic error:** is a bug that creates a crash in a program or code.

**Run-time error:** is an error while the program is running.