Lesson 3 – Uploading your very own Sketch

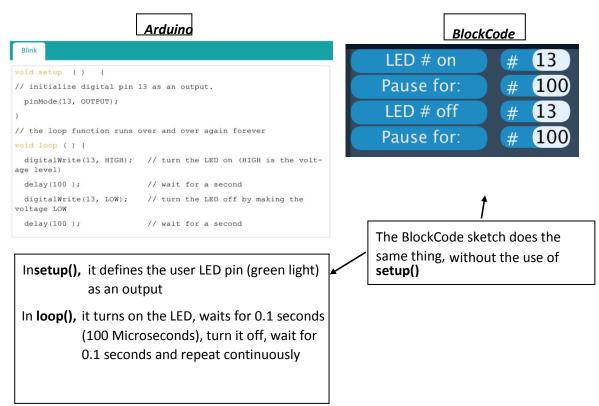
Sketch - A program written for an Engduino is called a Sketch. You can create a sketch in either Arduino or BlockCode. It is a more basic version of the "C" programming language

A sketch in Arduino must always contain these two main functions:

- void setup(){...} o In the setup() function, you would put code that needs to be run only once in order to prepare for your main section of code
- **void loop(){...}** O In the loop() function, you would put code that will be running in a loop, until there is an error or the Engduino is turned off.

In BlockCode, when writing a sketch, you are not required to write code for the setup function. The setup function is automatically generated in the output file.

Example of the blink sketch in Arduino and BlockCode:



Now try and creating your own sketch by playing around with the buttons on BlockCode

Summary

Lesson 3 teaches you to create your own sketches on BlockCode and Arduino. We will show you the main components and functions that make up a sketch. We will also show you how much easier it is, to write code in BlockCode, rather than Arduino.