

# PROGRESS REPORT 2

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Subsystem: Coding

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Reporting Progress from: 07/12/2020 => 13/12/2020

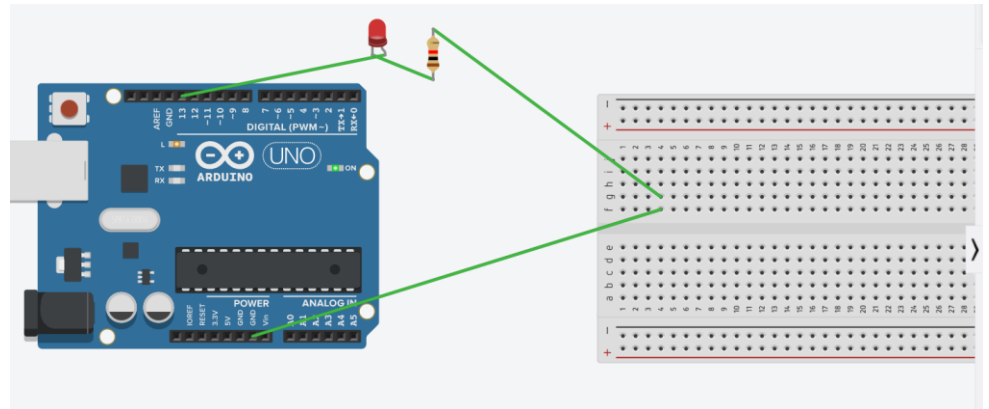
## Progress

### C++ & GIT

- 1) Read about Pointers in C++ and used them to solve programs.
- 2) Used Functions along with switch cases to reduce complexity while solving.
- 3) Applied the concepts above and completed the second worksheet of programs.
- 4) Read about the syntax of recursion in C++ and improving in that.
- 5) Learnt about GIT-BASH codes and its applications to help in git hub with uploading in repository.

### TINKER CAD

- 1) Researched on Arduino, Breadboards and the difference between MCU & MPU.
- 2) Studied about the basics of Arduino Code and used it to code "Hello World" in the domain of Tinker Cad.



- 3) Learnt about the terminologies in Arduino Board. Pulse Width Modulation to save power loss.

A Screenshot of the "Hello World" simulation from Tinker Cad.

- 4) Came across the use of Jumper Cables and its use.
- 5) Full details about the Arduino Board and its pins were learnt during this time.
- 6) Read about "Duty Cycle" to represent the percentage of time spent in the "ON" mode during PWM.

## Issues Faced

Problems in returning 2D arrays from a function in C++.