## **PROGRESS REPORT 3**

Name: Naman More

Subsystem: Coding

Date of Submission: 20/12/2020

Reporting Progress from: 14/12/2020 => 20/12/2020

## **Progress**

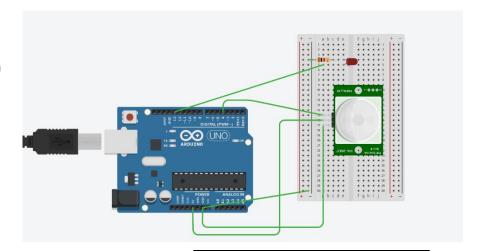
## C++ &PROGRAMMING

1)Implemented the knowledge of recursion in C++ programming.

- 2)Used recursion functions to solve 6 programs in the worksheet.
- 3)Started coding in Hacker Rank and solved many programs.
- 4) Solved around 30 programs and gained points eventually leading to a Silver badge till now.

## **TINKER CAD&COMPONENTS**

- 1)Practiced the use of Arduino and made many more circuits.
- 2)Implemented the "fading of a led" in Tinker Cad, with the use of knowledge in Pulse Width Modulation.
- 3) Studied about the basics of Pull-up and Pull-Down resistors and its use in Arduino.
- 4)Studied about Photoresistor and used it to glow a led when the surrounding is dark.
- 5)Read about IR sensor and its use to detect infrared radiations for motion sensing.



A Screenshot of the working of PIR Sensor from Tinker Cad.

- 6)Used a PIR sensor in Tinker Cad to glow a led when an object is present in front of it.
- 7)The use of Arduino Shields to increase the functionality of Arduino was learnt.
- 8)Researched on UART Communication and made a presentation on it along with my teammates.