

PROGRESS REPORT 4

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Subsystem: Coding

Date of Submission: 10/01/2021

Reporting Progress from: 04/01/2021 => 10/01/2021

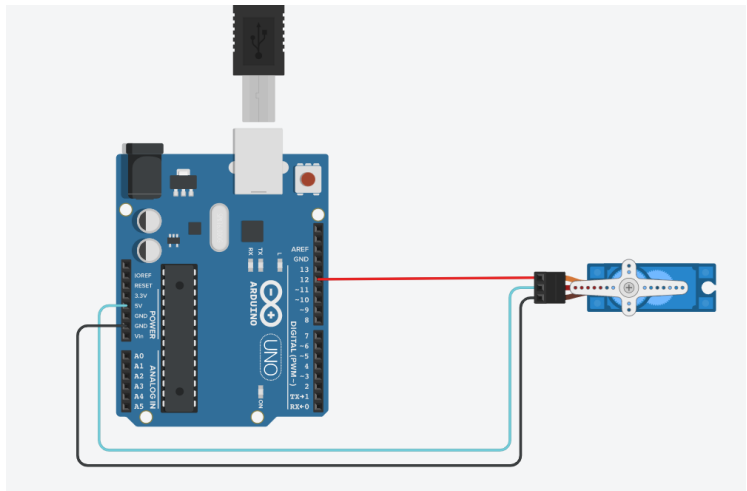
Progress

C++ & PROGRAMMING

- 1) Solved various challenging programming questions on internet.
- 2) Participated in **CODATHON** by IEE and stood 10th out of over 150 participants.
- 3) Started 30 days of code challenge on Hacker Rank

ARDUINO

- 1) Bought Arduino and parts and made the circuits of LED with photoresistor (LDR) and modified the code.
- 2) Revised all the concepts learned before the Mid-Sems.
- 3) Studied and researched on Servo Motors and simulated on Tinker Cad.
- 4) Made the Servo Motor work by the input from the user using the serial monitor with the help of `Serial.available()` function.
- 5) Researched about push buttons to work as toggles and used it in Tinker Cad.
- 6) Studied about Stepper Motors and about its differences from Servo Motor. Stepper Motor's speed can be controlled and it moves around in Steps. Basic application- In printers (To adjust the speed of the motion of page according to the ink)
- 7) Discussed about differential motors and holonomic drive and omni wheels. The applications of these motors and drives to help robots move was the main topic of discussion.
- 8) Saw videos of RoboManipal using omni wheels.
- 9) Halfway done with the **Arduino and C programming** Coursera course.



A Screenshot of the working of Servo Motor from Tinker Cad.