

PROGRESS REPORT 5

Name: Naman More

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.

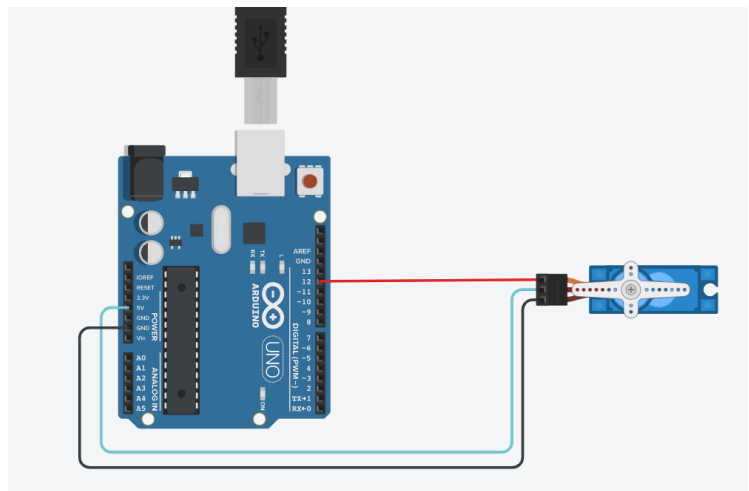
5) Researched about push buttons to work as toggles and used it in Tinker Cad.

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.