# **Week 5 Diary**

## Student Details

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## PS Instructor: Prof. Arun Kumar Jalan, Prof. P. Srinivasan

Week: 5th (15th June-20th June,2020)

Plan for the Week: (what was your plan for this week in terms of learning and project objectives)

1. To use the simulation software to test the circuits.
2. Getting the hardware and other parts for the project.
3. Submitting a report to the industry mentor for evaluation.
4. Giving the Quiz 2.

## Learning Outcomes of the Week

### About the PS 1 Station

1. The plant is operated by Udupi Power Corporation Limited which is a subsidiary of Lanco Infratech.
2. Adani power a subsidiary of Adani group is India’s largest private sector thermal power producer. It has also started a 40 MW solar powerplant in Gujrat to promote sustainability.
3. Adani Power has research and training institutes called APTRI all over India to train students about the industry.
4. It is the first independent power project which uses 100% of imported coal as fuel in the country.

### About the Project Domain

1. Simulation helps to protect the circuit and other parts from damage.
2. Simulation is required before testing a sketch on hardware.
3. Sensors have to be tweaked(adjusted) before using to get desired results.

## Skills Gained (Technical as well as soft skills)

1. Further uses of Arduino in **IoT** sector.
2. Accounting for my errors and being responsible enough to rectify them when pointed out by an expert.
3. Learning how to use GitHub for creating repositories and getting useful codes.
4. Operating Cloud based IoT services like AWS, GCP and IBM Bluemix.

## Major Learning & Project Milestones

1. Importance of Open Source Softwares and codes.
2. Checking compatibility of hardware with each other.
3. I came to know about the uses of IoT services and its impacts and integration in daily life and the contribution of Arduino in it,
4. Preparing an outline of the code required in the project.

## Major Challenges

1. Over utilization of data-pack due to work from home nature of work
2. The unavailability of hardware makes it hard to test the programs(code) written.
3. Due to lack of experience, I faced some difficulty writing sketches.
4. I came to know about the history, current scenario and future prospects of IoT based devices.

## Work Plan for Next Week

Next week starting 13th June:

1. I must assemble all the parts which I bought for the project.
2. Assembling the parts is not an easy task, I need to call the mentor to guide me.
3. I might have to learn how to solder.
4. So, the next week is basically about assembling the parts, uploading the new code and finishing the project.
5. We also have to give seminar and project report.