# Work Report Summary

**Date Range:** 8 April-13 April 2019
**Name:** Simran Malhotra
**Subsystem:** Coding

## Issue#1 Progress
• Installed ROS and I have gone through a few topics in the Documentation.

## WRO 2019 Progress

• **Encoder Motor**-Worked with Encoder Motor(RMCS-2284) and wrote a code to test its functionality but there were some issues.

https://github.com/RoboManipal-9-0/Coding-FirstYears/blob/Simran/Encoder.ino

• **Getting Encoder Values from different motors using Multiplexer**-Understood the working of a multiplexer and wrote a code to get encoder values from four different motors connected to the input pins on the multiplexer.Testing needs to be done.

https://github.com/RoboManipal-9-0/Coding-FirstYears/blob/Simran/Multiplexer.ino

• **PID(Proportional-Integral-Derivative) Controller**-Understood the working principle of a PID Controller and went through the PID Library on GitHub.

# Current Issues

## Issue#1

**Issues Faced:**
• Was unable to install ROS initially on my Mac but the issue was resolved.I installed Ubuntu on Virtual box.

## Encoder Motor

**Issues Faced:**
• The code was working but the encoder value was getting reseted to zero after a specified rotation.