

# WORK REPORT

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SubSystem : Coding

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Alignment :

- Worked with ultrasonic sensors and tested all the ultrasonic sensors (two sensors at a time) on the bot and found the approximate error and minimum distance of ultrasonic .

[https://github.com/RoboManipal-9-0/Coding-FirstYears/tree/branch\\_ojaswi/Ojaswi/Ultrasonic\\_Sensor\\_Test](https://github.com/RoboManipal-9-0/Coding-FirstYears/tree/branch_ojaswi/Ojaswi/Ultrasonic_Sensor_Test)

- Tested the alignment of bot with wall without using the motors by changing the position of wall for alignment and printing the values of ultrasonic sensors and directions in the serial monitor.

[https://github.com/RoboManipal-9-0/Coding-FirstYears/tree/branch\\_ojaswi/Ojaswi/Alignment](https://github.com/RoboManipal-9-0/Coding-FirstYears/tree/branch_ojaswi/Ojaswi/Alignment)

- Tested the bot for alignment with wall using motors and found the error in the alignment and corrected it.

Errors :

- The FourSBase's orientation changed to -90 degrees hence we have to changed the order of pins
- Found some wiring errors in the bot and got it corrected by electronics .
- Found logical errors and corrected them by changing if to while loop.
- Found an error of 1cm in alignment and corrected it by adding a corrected term to ultrasonic values.

