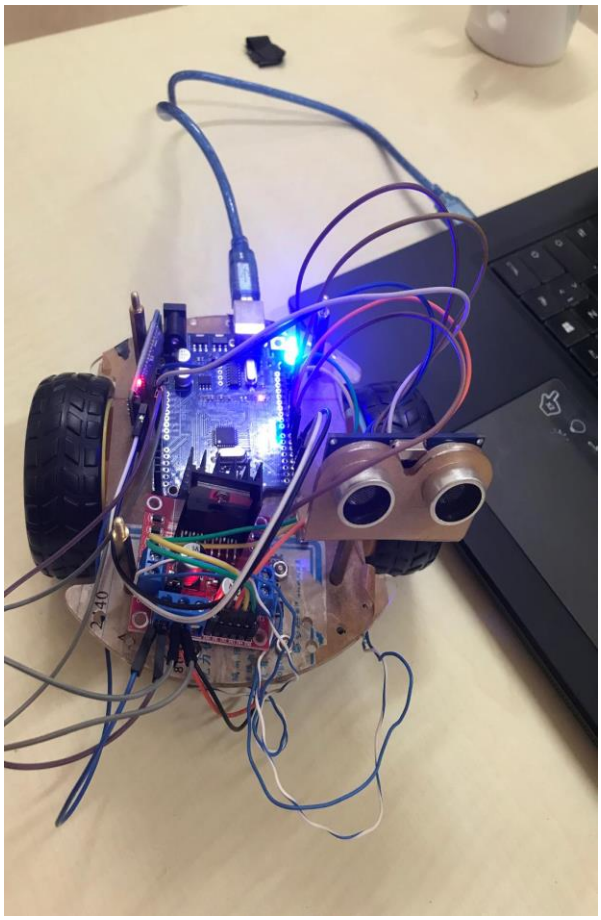
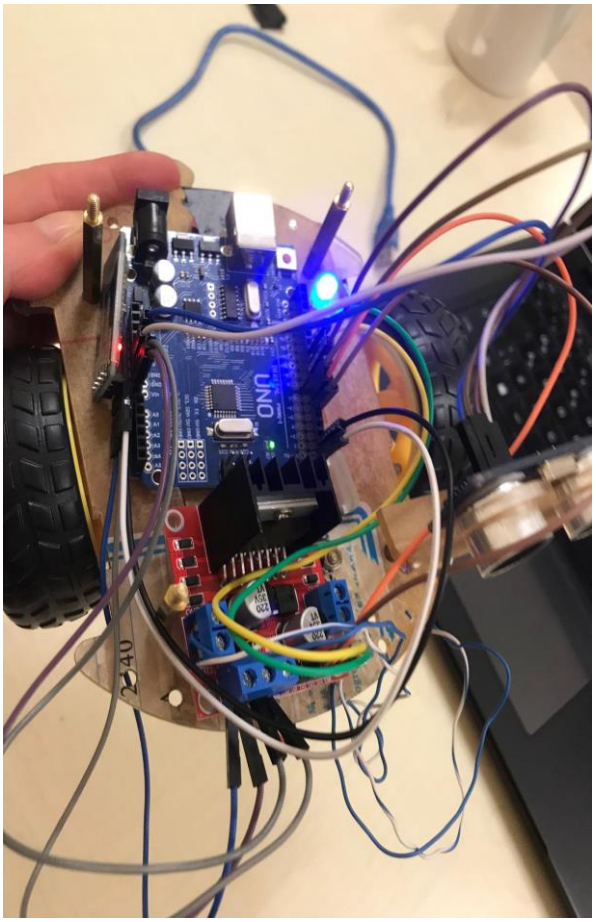
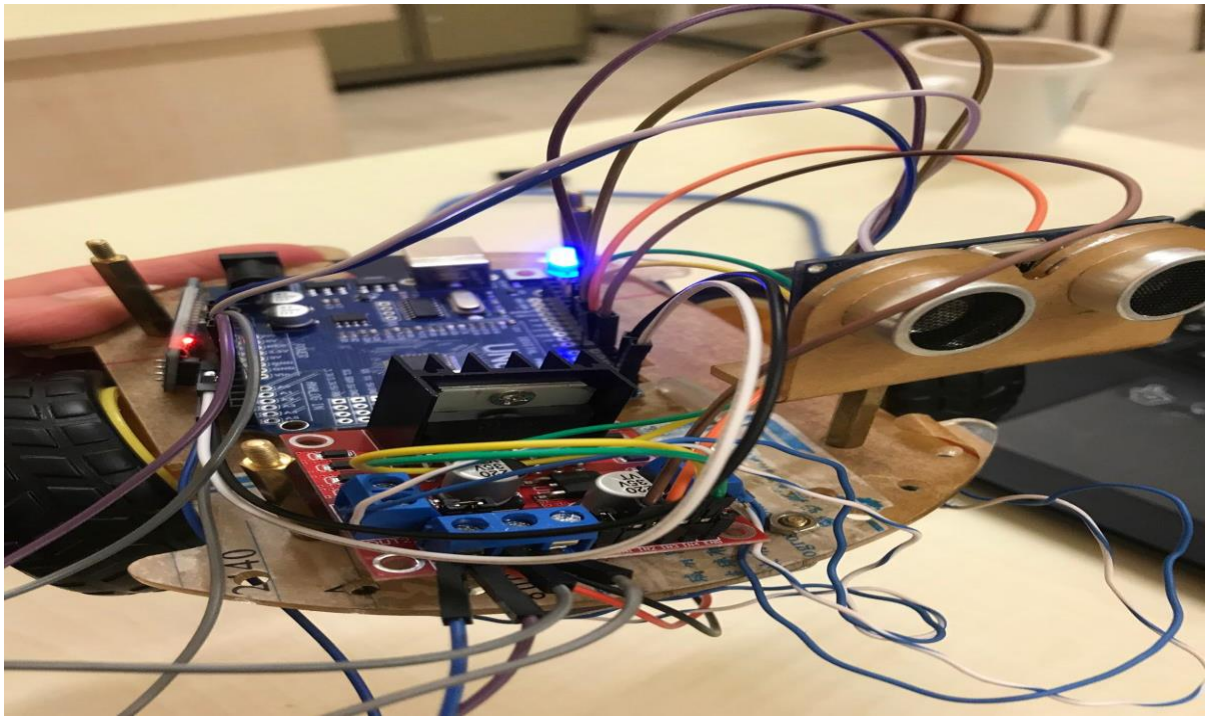
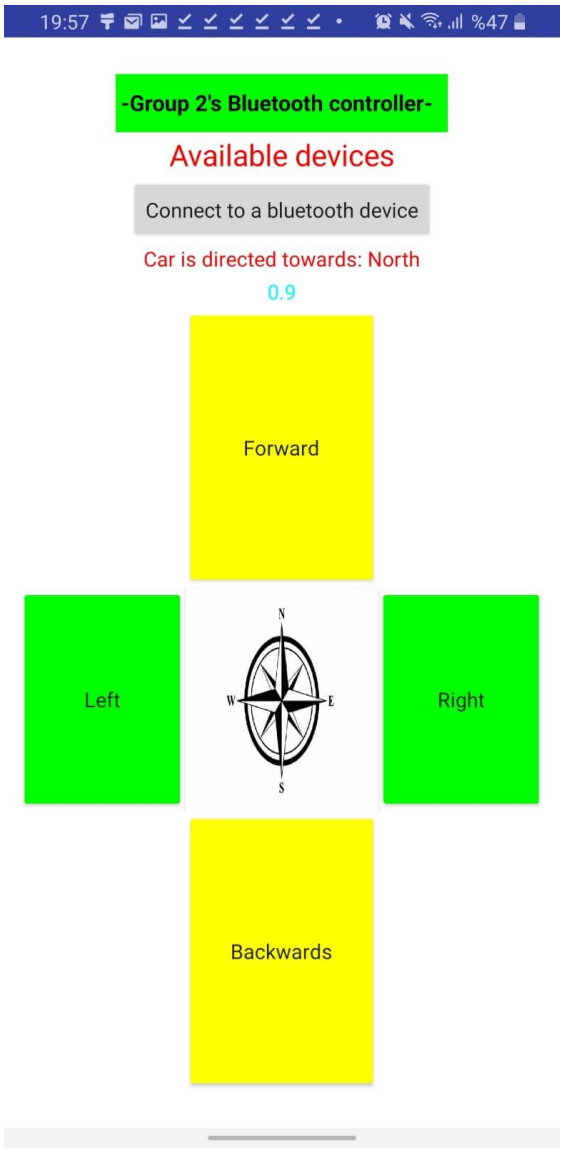
PROJECT 1

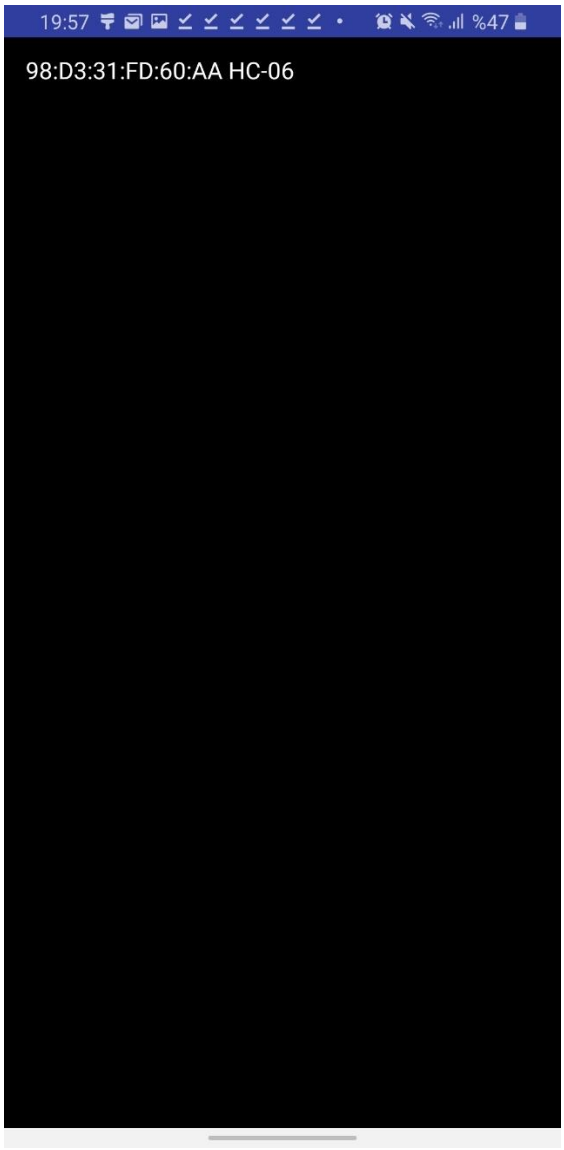


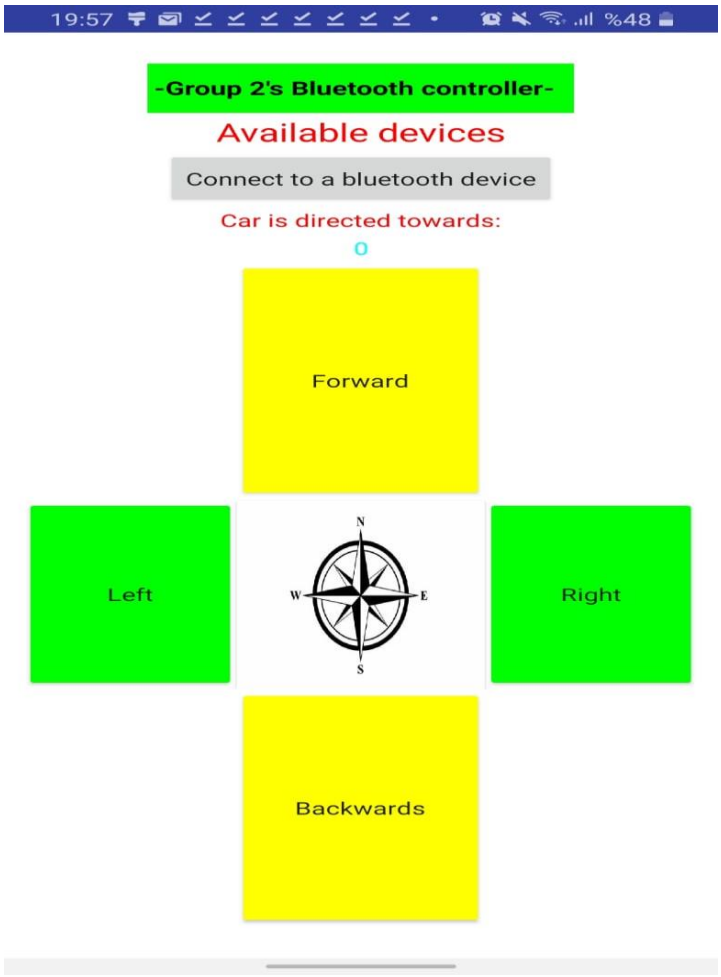


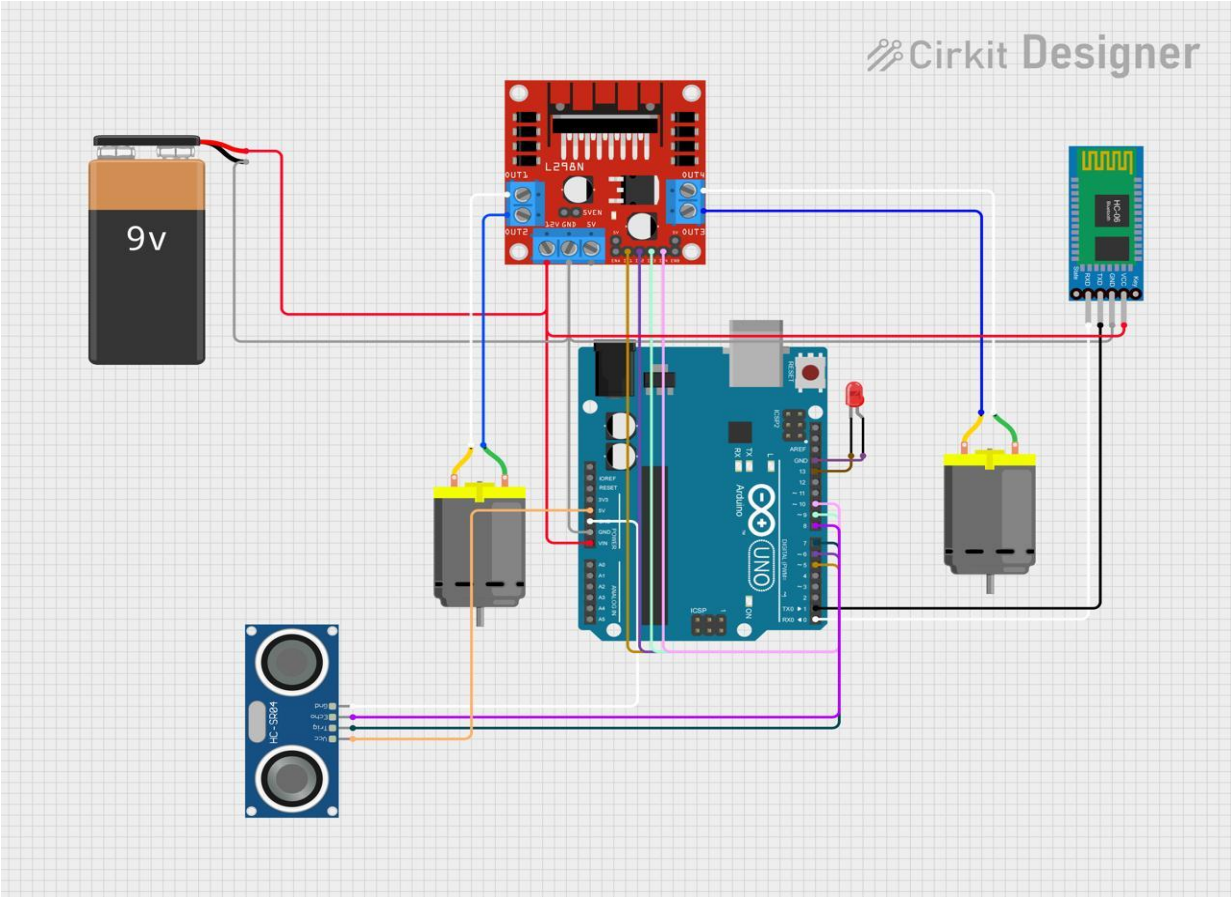


INTERFACE


19:57 %47
-Group 2's Bluetooth controller-
Available devices
Connect to a bluetooth device
Car is directed towards: North
0.9
Forward
Left
Right
Backwards


19:57 %47
98:D3:31:FD:60:AA HC-06


19:57
%48
-Group 2's Bluetooth controller-
Available devices
Connect to a bluetooth device
Car is directed towards:
0
Forward
Left
N
W
E
S
Right
Backwards



Requirements	Write complete or comments (missing functionality, failed tests etc).
1. Hardware setup 1pt -Setup the hardware in correct working order	DONE
2. MicroController Software 1pt -Setup the muC Code in working order	DONE
3. Circuit diagram is submitted. docs and pictures are present. 1pt	DONE

4. Application User Interface* 1pt (for commands-sensor control) -Make a command line or gui interface in Android, python, matlab, java, etc	DONE
1. Able to drive (N,W,E,S) 1 pt -Show that robot can take a command and go ahead, back, right, left.	DONE
2. Able to drive Straight 1 pt (needs encoder) -Show that robot can drive straight	DONE
3. Obstacle detection and stop* 1pt -Show that robot can stop when the moving direction is blocked.	DONE
4. Remote Wireless Comm 2pt (bluetooth or nodeMCU) -Show that robot operates wireless	Missing Part
5. Compass Reading 1 pt -Show that robot reads compass. Note that compass may need calibration. And magnetic isolation.	DONE
6. BNS Compass Heading 1 pt -Show that robot can go North, go South, go East, go West using compass.	DONE
7. BNS Encoder Distance Calculation* 1pt -Show that robot can calculate distance covered when moving.	DONE

8. Additional features. 0.5pts You can add an additional function. OR LCD. Or buttons/joysticks etc.	
Total 12 pt+ additional feature	