**Line Follower**

**Smart Guide**

**Write Down required testing functions for the following**

* Motor test
* Sensor test
* Rotation Callibration

**Tested and useful Video Links:**

<https://youtu.be/XQjTUvoxrpwhttps://youtu.be/XQjTUvoxrpw>

<https://youtu.be/mBZU9S0kZJwhttps://youtu.be/mBZU9S0kZJw>

<https://youtu.be/HSKXKAMLEoM>

<https://youtu.be/T8ddO5IXwzo>

<https://youtu.be/mJV-KDqHgDQ>

<https://youtu.be/wbrt2ClgZik>

**Where to Purchase parts from**

1. Online
2. Robotics Corner -Kolkata -+91 98314 04170
3. Sumit Electronics – Search on google maps

**Required Parts**

1)There are two types 500 rpm motor take the 500 rpm geared motor 340rs aprox not normal 500 rpm motor which would be very heavy

2)8 ray ir sensor also take the smaller one which not the big one

It may be bit more price but it is useful to make robot small and light weight

3)batteries normal Niamh 4 pieces will work with a voltage regulator

4)buy the smallest wheel as possible

5)wheel fixing clamp

6)chasis dont buy metalic from shop we will cut out from acrylic switch board

7)arduino uno and motor driver l298n same

8)jumper cables

9)arduino to usb cable

10)batter case

11)led light blue and red

12)button switch

13)motor clamp

14)smallest plastic caster wheel

15)nuts and bolts both long and short if we make small radius robot but double decker

Check them of right size by fitting in aruino and motor driver

16)normal wires

17)soldering machine

18)beep buzzer (optional)

19)bat grip rubber for wheels if anybody has at home

**Code**

**Spend some time reading code to understand it**