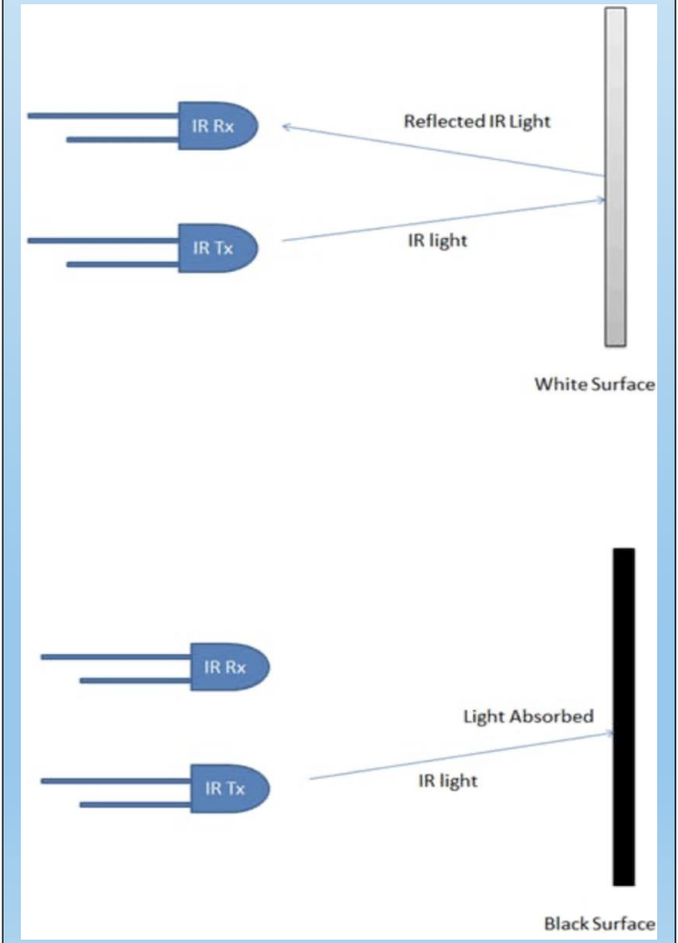
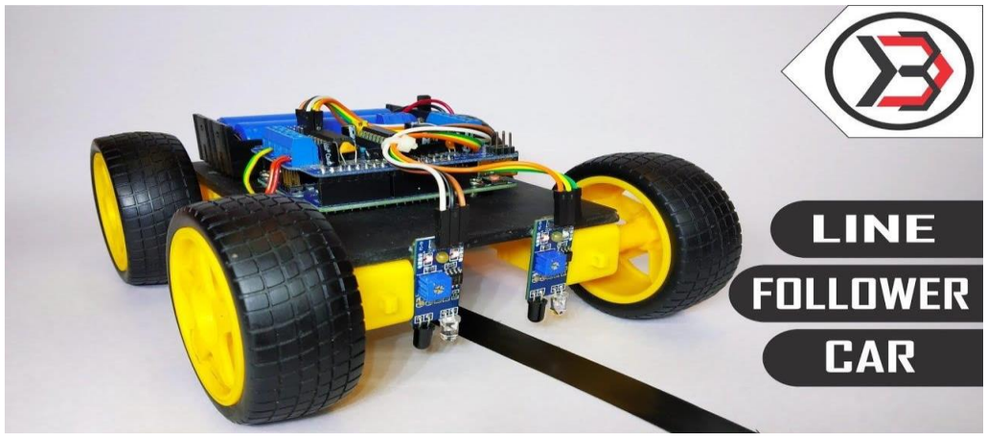
Line Follower Robot

Concepts of Line Follower

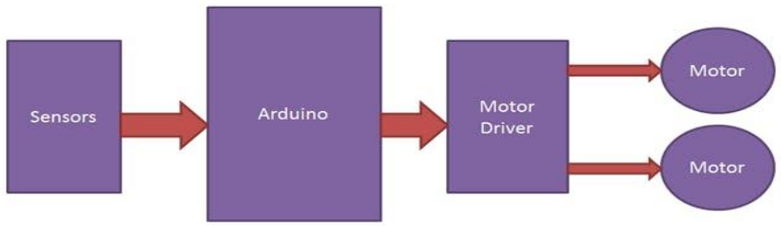
Concept of working of line follower is related to light. We use here the behavior of light at black and white surface. When light fall on a white surface it is almost full reflected and in case of black surface light is completely absorbed. This behavior of light is used in building a line follower robot.





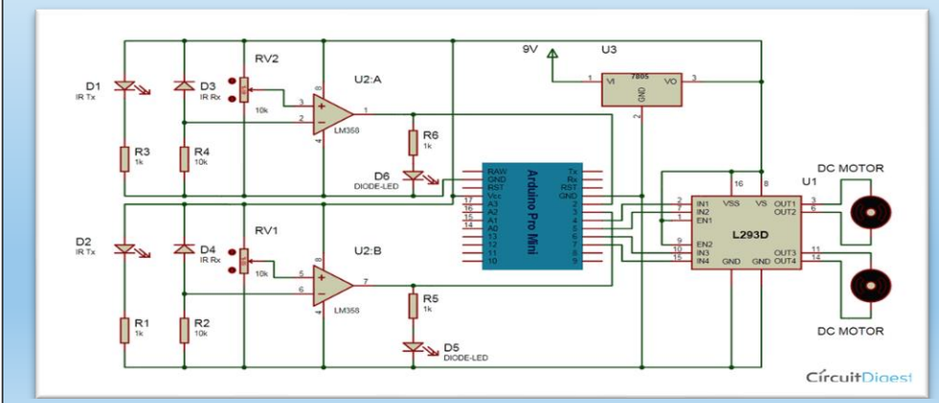
WORKING OF LINE FOLLOWER ROBOT USING ARDUINO

Working of line follower is very interesting. Line follower robot senses black line by using sensor and then sends the signal to arduino. Then arduino drives the motor according to sensors' output.

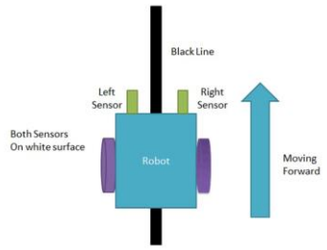


CIRCUIT DIAGRAM

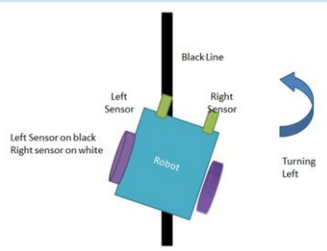
The whole arduino line follower robot can be divided into 3 sections: sensor section, control section and driver section.



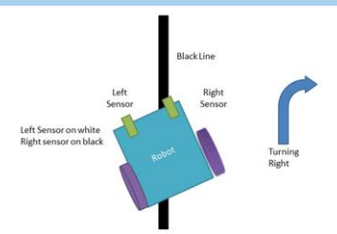
Here in this project we are using two IR sensor modules namely left sensor and right sensor. When both left and right sensor senses white then robot move forward.



If left sensor comes on black line then robot turn left side.



If right sensor sense black line then robot turn right side until both sensor comes at white surface. When white surface comes robot starts moving on forward again.



If both sensors comes on black line, robot stops.