LINE FOLLOWER ROBOT

RECREATORS

RECREATORS TEAM

DIVYANSHU YADAV
20200020

SHAURYA RAJ SRIVASTAVA
20201103

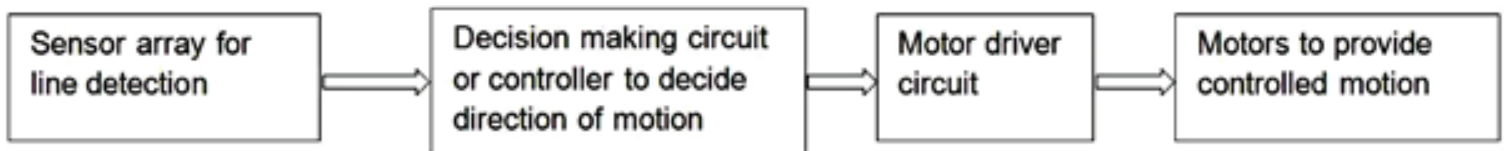SAURAV RAJ
20206042

RISHABH GUPTA
20201087

LINE FOLLOWER ROBOT

Line follower is an autonomous robot which follows either black line in white area or white line in black area. Robot must be able to detect particular line and keep following it.

In the following section, we design the **line follower robot which follows black line in white area.**

BLOCK DIAGRAM:

Let us see **how the line follower robot works**. It's the block diagrams.

Sensor array for line detection	→	Decision making circuit or controller to decide direction of motion	→	Motor driver circuit	→	Motors to provide controlled motion

OUR ROBOT SENSORS:

In, this LFR (line follower robot), we used five sensors. In front of our robot body, we used **three sensor** and **two sensors** on its wheels.
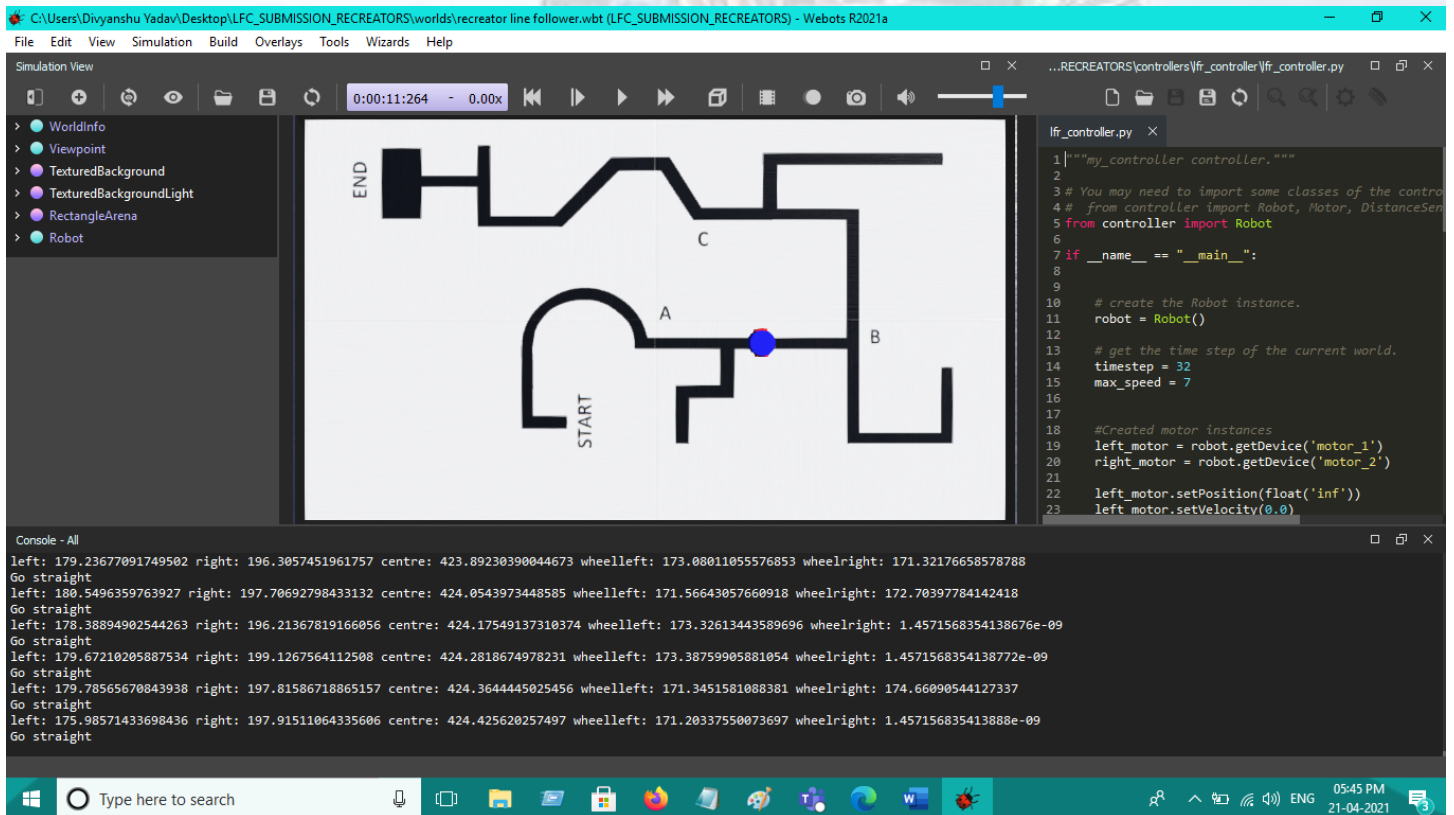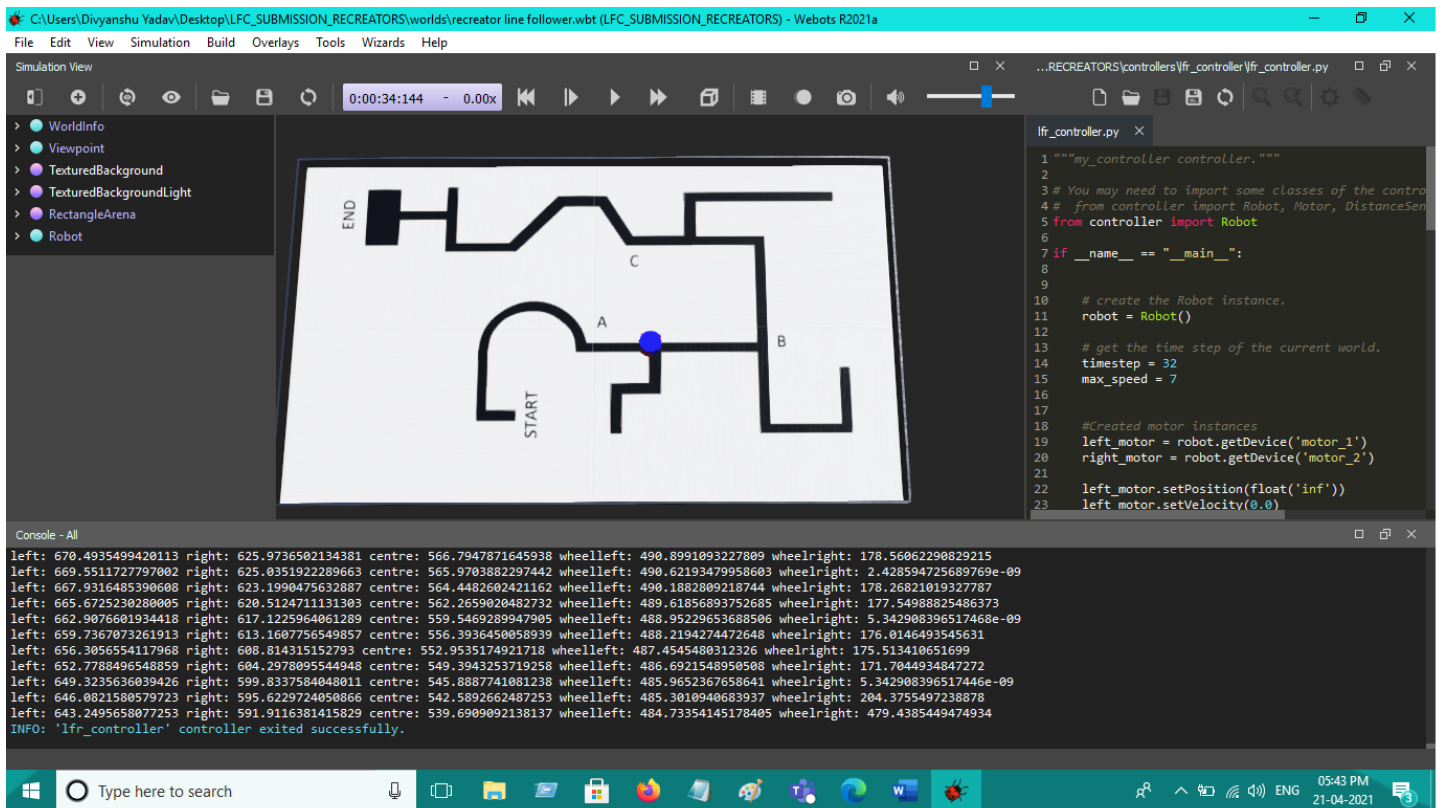
Sensor used on front side of our robot body (right and left side) is used to *keep the robot on track* and remain **three sensors** present on center and on near two wheels is used for following the **LSRB** algorithm to follow the given track.

Algorithm used:

In our project, we used the **LSRB** algorithm to follow the given track. According to this algorithm:

1. Always prefer a **left turn** over going **straight** ahead or taking a right turn.

2. Always prefer going **straight** over going right.

Source : It's our LFR project working Screenshot based on LSRB.