

If the servo motor can control the direction of the conveyor belt, what do you think would happen if it stopped working? How could you design a backup system to ensure that the candies still reach the correct sorting area?

The servo motor relies on sensors to know where to guide the candies. What challenges might arise if the sensors fail to detect the candies properly, and how could the factory prevent or fix this issue?

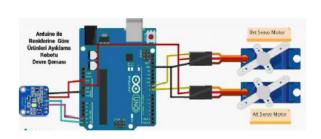
Explore (





Connect the servo motor with the color sensor on the Arduino board.

What challenges might we face in controlling multiple servomotors independently?





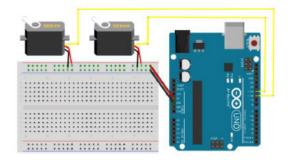


Assessment

Practice @



Now try to attach more than one servo to Arduino circuit.



Showcase..

Adding color sensor to the design.



Now I can...







How to link between the i/p signals from the sensor and the brain then the o/p to the servo motors.



UNIT 03 [Advanced]

⇔ Chapter 01 : Robotics Domain.

LESSON 01

Show the results.

Stepping Stone:

You need to know...

You will be able to...



How the color sensor reads data (e.g., RGB values) and communicates this information to the microcontroller.



Writing code to interface with the LCD, color sensor, and servo.



What if we needed to see the whole process from the control room, which component should we add?

Explore





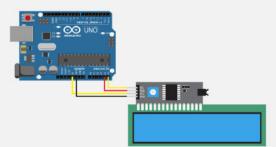


Assessment

Practice @



Attach LCD to your system and have fun watching your work coming into life!





Don't forget to go back to the improve part in your EDP paper and add this enhancement.



Showcase..

Now let's program the LCD ...

Now I can...



Writing code to interface with the LCD, color sensor, and servo.



