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# SERVO MOTOR INTERFACING WITH MICROCONTROLLER

## INTRODUCTION:

A servomotor is a rotary actuator or linear actuator that allows for precise control of angular or linear position, velocity and acceleration. It consists of a suitable motor coupled to a sensor for position feedback.

## METHODOLOGY:

In door lock we can use servomotor as actuator to indicate whether the lock is open or closed. When the lock is open the motor rotates and when the lock is closed it stops the rotation. To interface the motor with Atmega162 need a driver IC L293d. In code we can set the output pins of Atmega162 accordingly which provide input to the motor driver.

## PROCEDURE:

- Declaring 3 pins of Atmega162 as output.
- These output pins provide input to the motor driver IC L293d i.e 1 pin connected to EN1 while the remaining 2 are connected with IN1 & IN2.
- Outputs of the motor driver (OUT1 & OUT2) are connected to the DC motor.