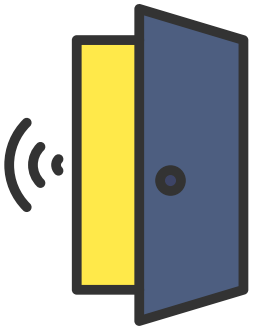
AUTOMATIC DOOR

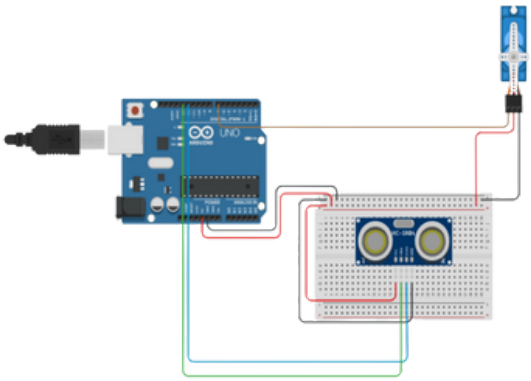


This project is for people who are unable to walk or see as it is very difficult for them to open a door so here is the solution to their problem an automatic door.

In this Door lock sensor detects the motion and opens the door automatically for the person.

Hardware required

- Arduino Uno R3
- Resistor
- Jumper Wires
- Ultrasonic Sensor
- Breadboard
- Servo Motor



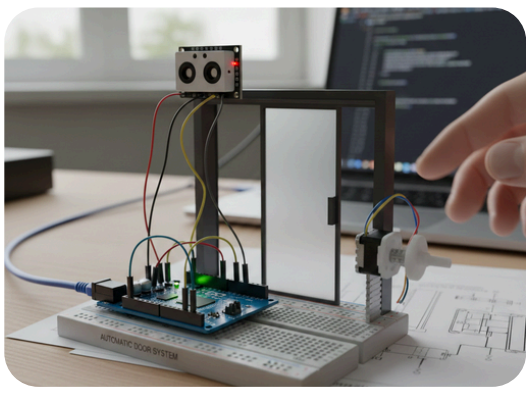
Arduino Code

```
#include<Servo.h>
Servo srv;
#define maxdistance 100
void setup()
{
  Serial.begin(9600);
  pinMode(13, OUTPUT);
  pinMode(12, INPUT);
  srv.attach(7);

}

void loop()
{
 digitalWrite(13, LOW);
 delay(1000); // Wait for 1000 millisecond(s)
 digitalWrite(13, HIGH);
 delay(1000); // Wait for 1000 millisecond(s)
 digitalWrite(13, LOW);
 int d=pulseIn(12,HIGH);
 d=d/29/2;
 Serial.println(d);
 if(d<=maxdistance)
 {
 srv.write(90);
 delay(1000);
 }
 else
 {
 delay(1000);
 srv.write(0);
 }

}
```



Precautions

1. Connections should be done properly.
2. Arduino is case Sensitive so code accordingly.
3. Give different and appropriate colours to the wires.
4. Use resistors for sensors and LCD's.