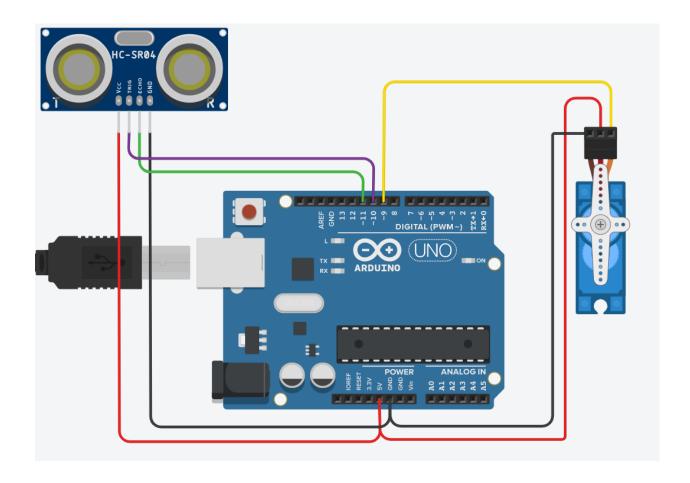
## **Assignment 2**

## Juhi Shaw 19BAI10038 (SmartInternz VIT-B IOT)

## Automatic garage door opening system

Circuit diagram using TinkerCad:



## Code for the application:

```
#include <Servo.h>
Servo servoMain; // Define our Servo
int trigpin = 10;
int echopin = 11;
int distance;
float duration;
float cm;
void setup() {
   servoMain.attach(9); // servo on digital pin 10
   pinMode(trigpin, OUTPUT);
   pinMode(echopin, INPUT);
}
void loop() {
  digitalWrite(trigpin, LOW);
  delay(2);
  digitalWrite(trigpin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigpin, LOW);
  duration = pulseIn(echopin, HIGH);
  cm = (duration/58.82);
  distance = cm;
  if(distance<60) {</pre>
    servoMain.write(180); // Turn Servo back to center position (90 degrees)
  delay(3000);
   else{
    servoMain.write(0);
     delay(50);
}
```