ASSIGNMENT-2

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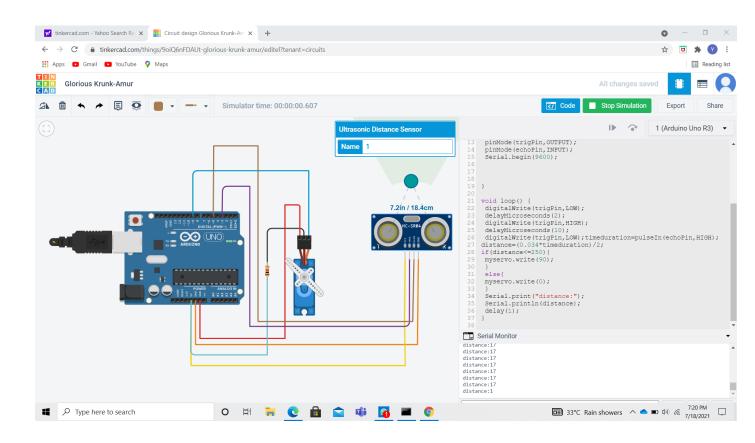
Reg.no:19BEC0271

TINKERCAD CODE:

```
#include<Servo.h>
Servo myservo;
const int trigPin=3;
const int echoPin=5;
long timeduration;
int distance;
void setup() {
myservo.attach(9);
pinMode(trigPin,OUTPUT);
pinMode(echoPin,INPUT);
Serial.begin(9600);
}
void loop() {
digitalWrite(trigPin,LOW);
delayMicroseconds(2);
digitalWrite(trigPin,HIGH);
delayMicroseconds(10);
digitalWrite(trigPin,LOW);timeduration=pulseIn(echoPin,HIGH);
distance=(0.034*timeduration)/2;
if(distance<=250){
myservo.write(90);
```

```
}
else{
myservo.write(0);
}
Serial.print("distance:");
Serial.println(distance);
delay(1);
}
```

<u>Server motor when the Vehical approaches i.e., in range of Ultrasonic sensor.</u> (opening):



Server motor after the car entering the garage i.e. not in Ultrasonic range (Closing):

