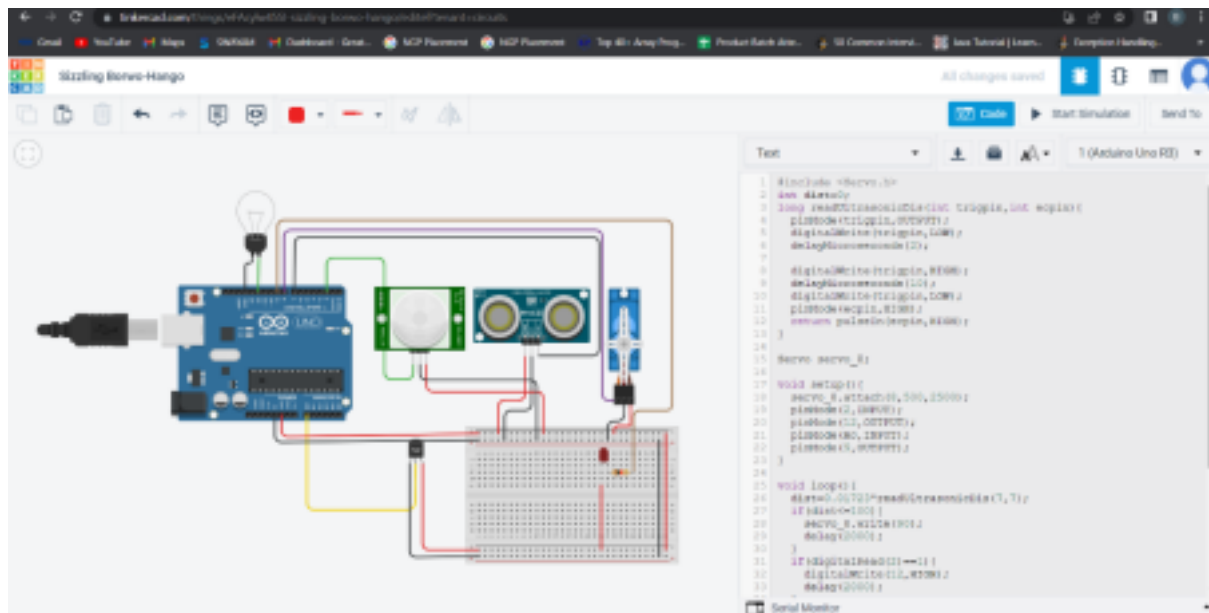# ASSIGNMENT-1

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Screenshot :

Code:

```
#include <Servo.h>

int dist=0;

long readUltrasonicDis(int trigpin,int ecpin){

pinMode(trigpin,OUTPUT);

digitalWrite(trigpin,LOW);

delayMicroseconds(2);


digitalWrite(trigpin,HIGH);

delayMicroseconds(10);

digitalWrite(trigpin,LOW);

pinMode(ecpin,HIGH);
```

```
  return pulseIn(ecpin,HIGH);

}
Servo servo_8;


void setup(){

servo_8.attach(8,500,2500)

; pinMode(2,INPUT);

pinMode(12,OUTPUT);

pinMode(A0,INPUT);

pinMode(9,OUTPUT);

}


void loop(){

dist=0.01723*readUltrasonicDis(7,7)

; if(dist<=100){

servo_8.write(90);

delay(2000);

}
if(digitalRead(2)==1){

digitalWrite(12,HIGH);

delay(2000);

}
else{

digitalWrite(12,LOW);

delay(2000);

}
if(analogRead(A0)>200){

digitalWrite(9,HIGH);

delay(2000);

}
```

```
else{

digitalWrite(9,LOW);
delay(2000)

; }

}
```