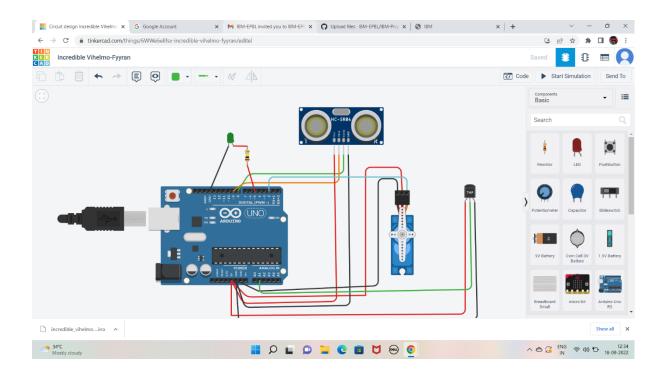Tinker cad link : https://www.tinkercad.com/things/6WWe6elifsx

Git username   : Mohamed Fardeen

#include<Servo.h>

Servo myServo;

int t =9;

int e =8;

long time=0;

long dist=0;

void setup()

{

  myServo.attach(2);

  Serial.begin(9600);

  pinMode(e,INPUT);

```
  pinMode(t,OUTPUT);

  pinMode(5,OUTPUT);

}


void loop()

{

  digitalWrite(t,LOW);

  delay(100);

  digitalWrite(t,HIGH);

  delay(100);

  digitalWrite(t,LOW);

  float time = pulseIn (e, HIGH);

  float dist = time*0.034/2;


  double a=analogRead(A1);

  double tem=((((a/1024)*5)-0.5)*100);

  Serial.print("temp value:");

  Serial.println(tem);



if(dist<=300 || dist>=0)

{

 {

 myServo.write(0);

 delay(500);

 myServo.write(30);

 delay(500);

 myServo.write(60);

 delay(500);

 myServo.write(90);

 delay(500);
```

```
    myServo.write(120);

    delay(500);

    myServo.write(160);

    delay(500);

    myServo.write(180);

    delay(500);

    }

    digitalWrite(5,HIGH);

}

else

  {

   Serial.println("out of boundary");

  }

   {

     myServo.write(0);

}

}
```