CODE

```cpp
#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);

  }

}
```

LINK

https://www.tinkercad.com/things/irv62x9MdY4

CIRCUIT DIAGRAM