

# Assignment-2:

Software: Thinkercad

## Code:

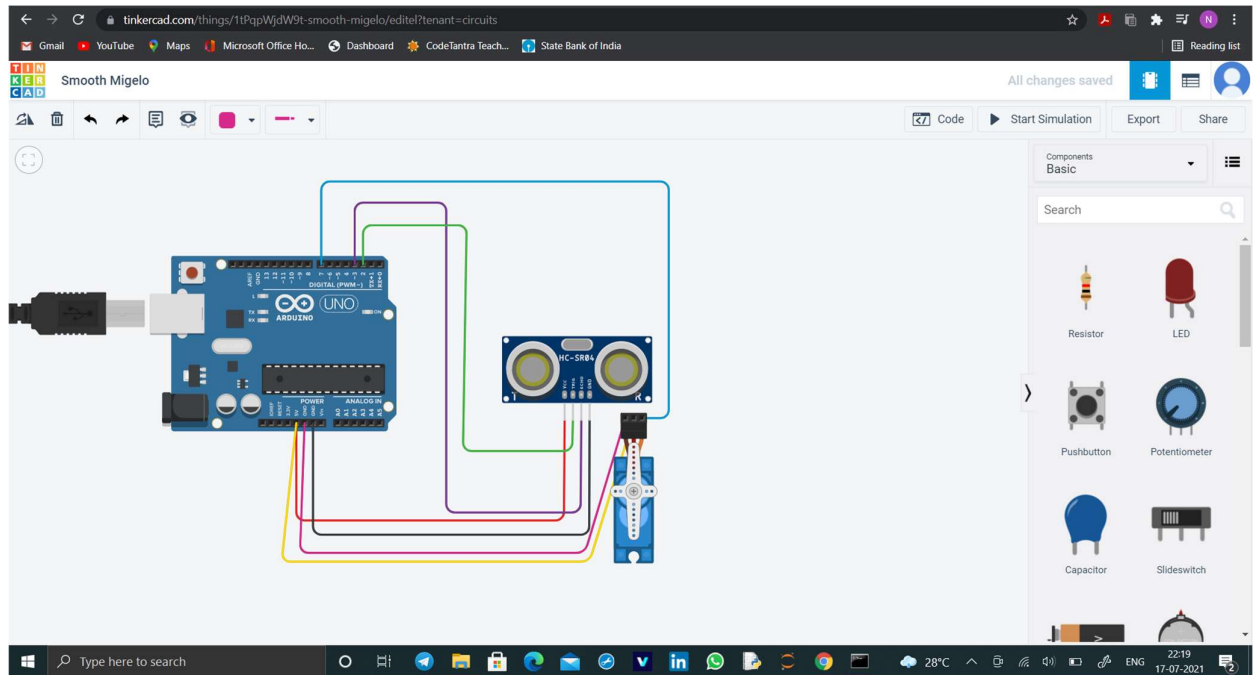
```
#include<Servo.h>

Servo s;

void setup()
{
    s.attach(7);
    pinMode(2, OUTPUT);
    pinMode(3, INPUT);
    Serial.begin(9600);
}

void loop()
{
    digitalWrite(2, LOW);
    digitalWrite(2, HIGH);
    delayMicroseconds(10);
    digitalWrite(2,LOW);
    float dur = pulseIn(3,
HIGH);
    float dis = (dur *
0.0343)/2;
    Serial.print("Distance in
cm: ");
    Serial.println(dis);
    if(dis<100)
    {
        s.write(180);
        delay(1000);
    }
}
```

Before Simulation:



After simulation:

