

# Water level Monitoring System:

Link of Simulation: <https://www.tinkercad.com/things/e3W2fdkuE0b-copy-of-smart-irrigation-with-soil-moisture-sensor-and-relay/editel?tenant=circuits..>

## Code Used For Simulation:

```
#define moisturepin A0
#define pump 7

int moisturevalue = 0;
int lastmoisturevalue = -1;

void setup()
{
  Serial.begin(9600);
  pinMode(pump, OUTPUT);
  pinMode(moisturepin, INPUT);
}
```

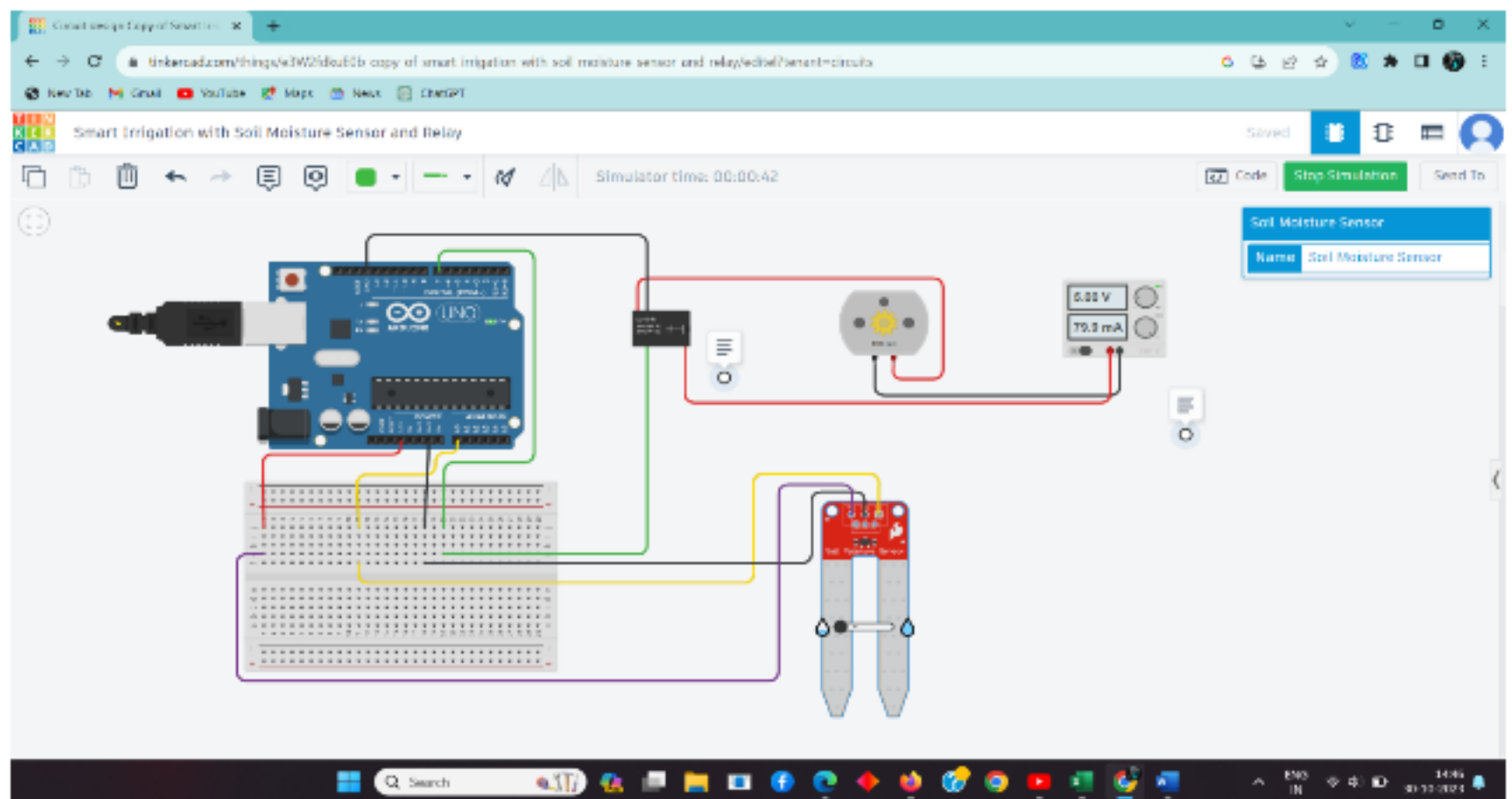
```
void loop()
{
    moisturevalue = analogRead(moisturepin);

    if (moisturevalue != lastmoisturevalue) {
        lastmoisturevalue = moisturevalue;

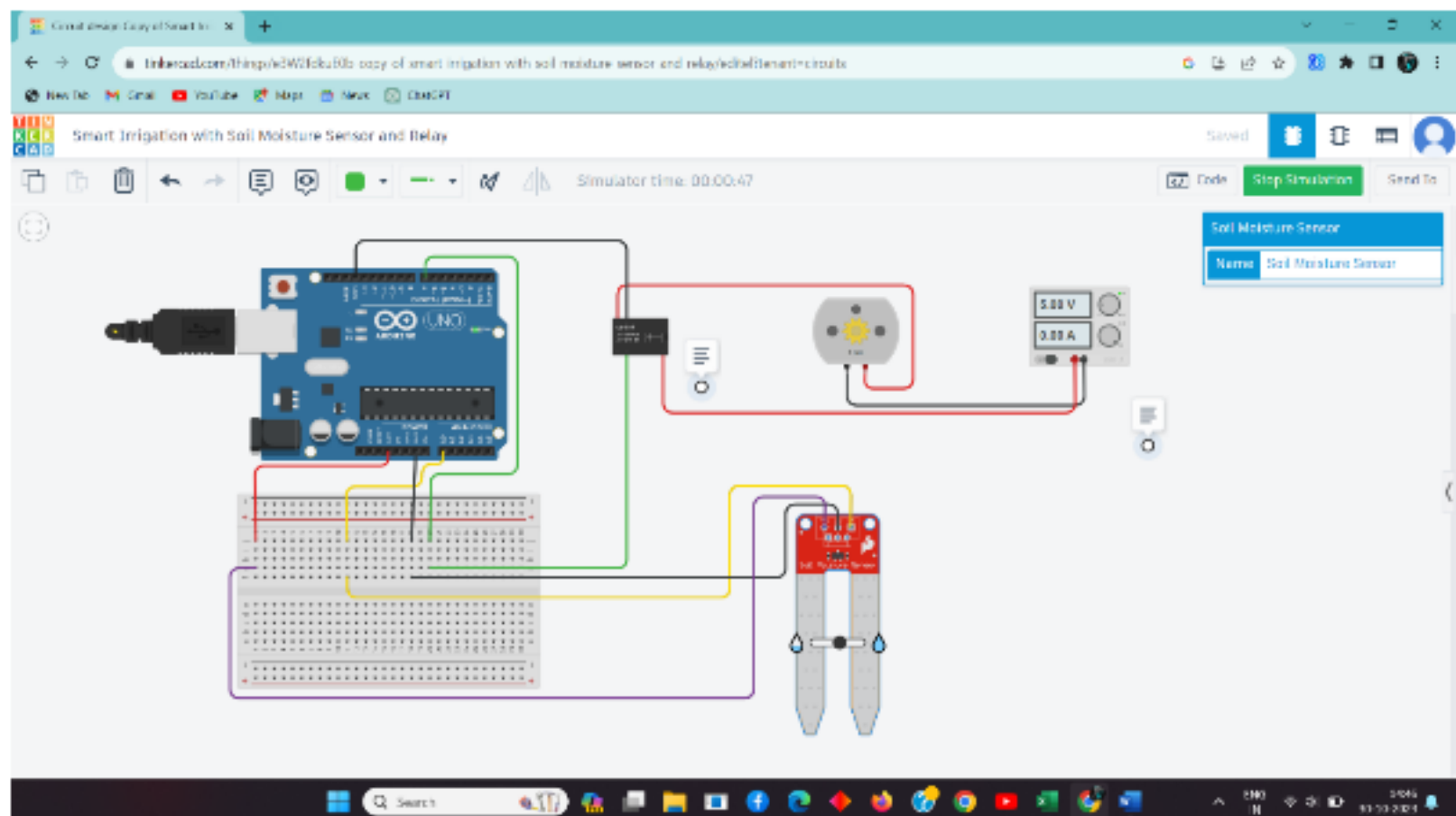
        if (moisturevalue <= 300) {    digitalWrite(pump,
HIGH);    Serial.println("Soil Humidity = " +
String(moisturevalue) + "% - Pump ON");

        } else {
            digitalWrite(pump, LOW);    Serial.println("Soil
Humidity = " + String(moisturevalue) + "% - Pump
OFF");

        }
    }
    delay(100);
}
```



Before threshold:(Motor ON)



After Threshold:(Motor OFF)