**9.** **ARDUINO CODE:**

//Tech Trends Shameer

//Smart Irrigation System

int sensor\_pin= A0;

int output\_value;

void setup(){

pinMode(3, OUTPUT);

Serial.begin(9600);

Serial.println("Reading from the Moisture sensor…");

delay(2000);

}

void loop()

{

output\_value= analogRead (sensor\_pin);

output\_value= map (output\_value,550,10,0,100);

Serial.print("Moisture:");

Serial.print(output\_value);

Serial.println("%");

if (output\_value<0)

{

delay(1000);

digitalWrite(3, HIGH);

}

else

{

delay(1000);

digitalWrite (3,LOW);

}

delay (1000);

}