Source Code:

#define sensor\_pin A1/\* Soil moisture sensor O/P pin \*/

#define motor\_pin 4

void setup() {

Serial.begin(9600); /\* Define baud rate for serial communication \*/

pinMode(sensor\_pin,INPUT);

pinMode(motor\_pin,OUTPUT);

}

void loop() {

float moisture\_percentage;

int sensor\_analog;

sensor\_analog = analogRead(sensor\_pin);

moisture\_percentage = ( 100 - ( (sensor\_analog/1023.00) \* 100 ) );

Serial.print("Moisture Percentage = ");

Serial.print(moisture\_percentage);

Serial.print("%\n\n");

delay(1000);

if(moisture\_percentage<5){

Serial.println("Running the motor");

digitalWrite(motor\_pin,HIGH);

}

else{

Serial.println("Moisture percentage is in range");

}

}