MEPCO SCHLENK ENGINEERING COLLEGE

Department of Electronics and Communication Engineering

IBM NALAIYA THIRAN

PROJECT DEVELOPMENT PHASE

TEAM ID : PNT2022TMID18128

TITLE : Smart Farmer- IoT Enabled Smart Farming Application

DOMAIN NAME : Internet of Things

LEADER NAME : NAMEERA NAZININ M

TEAM MEMBER NAME: DEVI PRIYA S

SIVA HARITHA S

BHUVANESHWARI N

MENTOR NAME : VARUN PRAKASH R

SPRINT 1

Connecting Sensors with Arduino using C++ code

```
wait for 100 msecond digitalWrite(3, LOW); // turn theLED/Buzz OFF
  delay(100);
   Serial.begin(9600);delay(1000);
    DHT.read11(dht_apin);
                                  //temperature
    floath=DHT.humidity;
float
t=DHT.temperature; delay(5000);
Serial.begin(9600);
float moisture_percentage;
int sensor_analog;
                  =analogRead(sensor_pin);
sensor_analog
  moisture_percentage = (100 - ((sensor\_analog/1023.00) * 100));float
  m=moisture_percentage; delay(1000); if(m<40)//pump
  { while(m<40)
  digitalWrite(pin_out,HIGH); //open pump sensor_analog =
  analogRead(sensor_pin);
  moisture_percentage = (100 - ((sensor\_analog/1023.00) * 100)
  ); m=moisture_percentage; delay(1000);
  digitalWrite(pin_out,LOW);
                                            //closepump
  if(c>=0)
  mySerial.begin(9600);
                                        delay(15000);
  Serial.begin(9600); delay(1000);
  Serial.print("\r"); delay(1000);
  Serial.print((String)"update-
 >"+(String)"Temprature="+t+(String)"Humidity="+h+(String
 )"Moisture="+m); delay(1000);
    }
 }
```

Circuit Diagram





