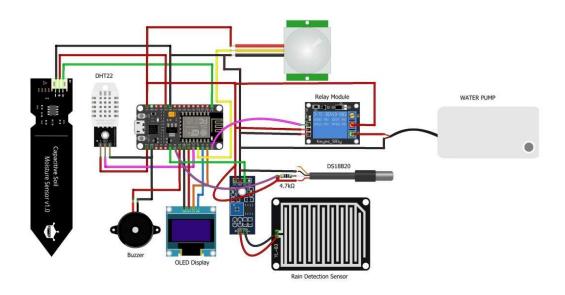
* Components Used -

- NodeMCU ESP8266-12E board -> 1
- Capacitive soil moisture sensor -> 1
- DHT11 temperature & humidity sensor -> 1
- DS18B20 waterproof temperature sensor -> 1
- Rain detector sensor -> 1
- 0.96" I2C OLED display -> 1
- 5V single-channel relay module -> 1
- 5V small buzzer -> 1
- Jumper wires -> 50
- Breadboard -> 2
- $4.8 \text{ k}\Omega \text{ Resistor} \rightarrow 1$
- 5V DC water pump -> 1

* Circuit Diagram -



* Connections -

- DHT11 temperature & humidity sensor :
 - $+ve \rightarrow D4$
 - Middle -> 3V3
 - -ve -> GND
- Capacitive soil moisture sensor :
 - GND -> GND
 - VCC -> 3V3
 - AOUT -> AO
- 5V small buzzer:
 - -ve (small pin) -> GND
 - +ve (large pin) -> D5
- 0.96" I2C OLED display:
 - GND -> GND
 - VCC -> 3V3
 - SCK -> D1
 - SDA -> D2
- Rain detector sensor:
 - DO \rightarrow d7
 - GND -> GND
 - VCC -> Vin
 - AO no connection
- 5V single-channel relay module :
 - D0 to in \rightarrow D0
 - GND -> GND
 - VCC -> 3V3
 - NO -> Water pump
 - $COM \rightarrow 3V3$
- DS18B20 waterproof temperature sensor :

- Red wire -> Vin
- Black wire -> GND
- Yellow wire -> D6
- $4.8 \text{ k}\Omega$ Resistor between yellow and red wires

- 5V DC water pump:

- GND to Black wire -> GND
- Red wire -> NO

* Blynk 2.0 Setup –

