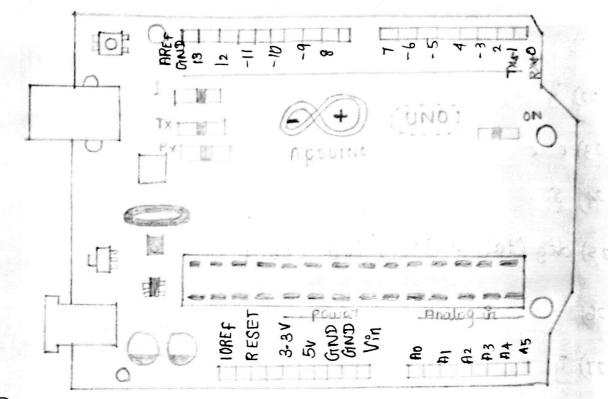
9/9/22 Technical Training and Interinot of things B3-3M5E



## Program:

- 1) 11 c++ code
- 2) 11
- 3) void notup()
- 4) {
- 5) Sovial. bog in (9600);
- 6) Ph Mode (3,00TPUT);
- 7) 2
- 8)
- 9) void loop ()
- 10) {
- 11) int value = analog Road (AO);
- 12) Sorial · Print ("value = ");

```
sould . Print (value);
                                        Ulleavor
13)
     Ent Con_value = map (value, 0, 1003, 0, 255);
14)
     Social · print (" Con_value = ");
15)
    social. mint In (Con value);
16
     analogurite (3, Con. valuo);
17)
(8)
    dolay (500);
19)
     4.
20)
  ultrasonie sensor working:
    -- Comidering the travel time and the speed
 of the round you can calculate the distance.
         Distance = (Duration/2) * velocity of Sound
                                            (340m/s).
```

```
Ultrasonie gorson groupilations:
Openating voltage : DC5v
Choraling Current: 15mA.
CPonating frequency: 40 кнг
 Max Range
                 : 4 cm
 Min Range
                   2 cm
 Ranging Accuracy: 3 mm
 Moasuring Angle: 15 degree
 Trigger input rignal: 10 ps TTI Pulse
 Dimensión
            : 45 x & 0 x 15 mm
altrasonie formor code:
    int t = B;
   % + e = 3;
   void Setup()
    Soural. beg in (9600);
    Pur Made (E, OUTPUT);
    På Mode (e, INPUT);
    void loop()
```

digital Write (t, Low);

digital Write (1, HIGH); delay Microsownds (10); digital write (E, Low); float dur = pulsein (e, HIGH); float dis = (dur \* 0.0343/2); Soulal · Print ("Distance in cm:") Social · printin (dis);

## PIR Somor Intro:

PIR Somors allow you to some motion, almost always used to detect whether a human has moved in (or) Dut of the newsons range.

-- They are Small, inexpensive, Low-power early to me and don't wear out for that region they are Commonly found in applications and. gadget & uned in homes (or) bunnemes.

-> They are often referred to as PIR, "Pauvre Infranced', "Pyroelactric', or

"IR Motion" Sensors.

PIR Lamor Working:

The Pyro-cloctric Infra-Rad (PIR)
Sorver is an extremely uneful device for
detecting the prosence of a moving body.

PIR is rimply Semitive to the infrared energy emitted by every Living things.

When an intruder walks into the detector's field of vision. The detector "sees" a sharp increase in infrared energy.

