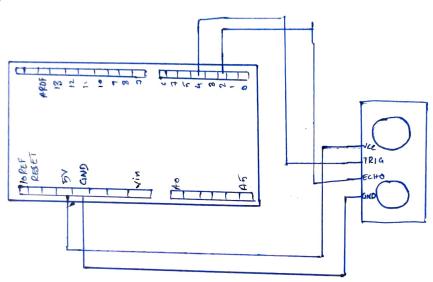
Shiva Poaneeth Kodali 1BM18CS100

Program: 5

Program Title: motion sensor

Aim: To demonstrate the use of mothion sensor

circuite:-



code: int trigpin = 4;

int echolin= 2;

long duration, con inches;

void setupc) {

serial. begin (9600);

pinMode (trigPin, OUTPUT);

Pin Moch (echoPin, INPUT);

void loop() digital Write (trigPin, LOW);

delay Microse conds (5);

degitablish (higPin, HGH); delay Microsecondo (10); degetal Wrike (higPin, LOW)

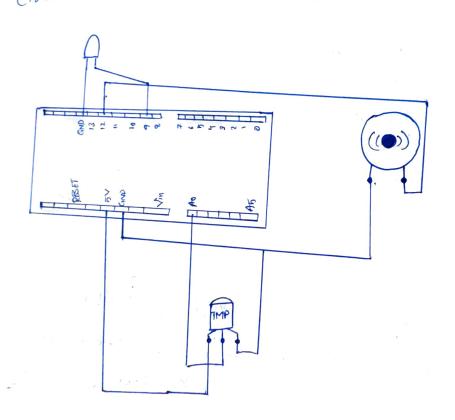
```
P. Mode (echoPin, INPUT);
 duration = Polse In (echoPin, HC, H);
    cm = (duration/2)/29.1.
   inches = (duration/2) /74;
    Serial print ("Distana: ");
     Serial . Print (inches);
     Serial print ("in: ");
     serral point ('cm);
     Serial . Print ("cm: "):
      serial-println();
        delay (210);
Output :
 The distance of an object that is in the reference come is seen in
 the serial monitor [in both centimetors & incher].
```

Program Title: - fixe detection

Program Title: - fixe detection

Aim: To demonstrate fixe detection with temp. sensor

Circuit:-



code:

```
Const int temperature In = 0;

int buzzer = 12;

void setup ()

serial begin (9600);

PinMode (buzzer, OUTPUT);

PinMode (9, outPUT);
```

```
float Voltage, degrees C;
     voltage = getVoltage (temperature Pin).
      degrees C = (Voltage - 0.5) * 200.0;
      digital Write (9, LOW):
          if (degree ( 37)
               Serial point (digress C);
Serial point ("SAFE TEMPERATURE");
            if (degreese > 37)
                 Said print (degreesc).
                  soid. point In ("ALERT");
                   digital Write ( bu 22 per, LOW).
                    degital Write (a, HIGH);
                     tone (12, 10000, 100);
                   Jelay (100);
   When the temperature is increased beyond
output :-
    37°C The by 22er starts ringing and the
     LED lights UP. The social monitor will display
     the temperature and the message "ALERT". If
    The temperature is below 37°c the the
      LED will be off and the message
      " SAFE TEMPERATURE" will be displayed in the
```

social monitor.

void 100P ()