TEAM ID : PNT2022TMID53973

ASSIGNMENT -1

CODE:

//

C++

Code

//

int t=2;

int e=3;

void setup()

{

  Serial .begin(9600);

  PinMode (t,OUTPUT);

  PinMode (e,INPUT);

  PinMode (12,OUTPUT);

}

void loop()

{

  //ultrasonic sensor

  Digital Write (t,LOW);

  Digital Write (t,HIGH);

  Delay Microseconds(10);

  Digital Write(t,LOW);

  float dur =pulseIn (e,HIGH);

  float dis =(dur\*0.0343)/2;

  Serial .print ("Distance is: ");

  Serial .print ln(dis);

    //LED ON

  If (dis>=100)

  {

    Digital Write(8,HIGH);

    Digital write(7,HIGH);

  }

  //Buzzer For ultrasonic Sensor

  if(dis>=100)

  {

  for(int i=0; i<=30000; i=i+10)

  {

  tone(12,i);

  delay(1000);

  no Tone(12);

  delay(1000);

  }

  }

    //Temperate Sensor

  double a= analog Read(A0);

  double t=(((a/1024)\*5)-0.5)\*100;

  Serial .print("Temp Value: ");

  Serial .print ln(t);

  delay(1000

  //LED ON

  if(t>=100)

  {

    Digital Write(8,HIGH);

    Digital Write(7,HIGH);

  }

  //Buzzer for Temperature Sensor

  if(t>=100)

  {

  for(int i=0; i<=30000; i=i+10)

  {

  tone(12,i);

  delay(1000);

  no Tone(12);

  delay(1000);

  }

  }

   //LED OFF

  if(t<100)

  {

    Digital Write(8,LOW);

    Digital Write(7,LOW);

  }

}

