

Hazardous Area Monitoring for Industrial Plant Powered by IoT -PNT2022TMID43711

```
#include <SoftwareSerial.h>

SoftwareSerial bt(8, 9); // RX, TX
```

```
#include <LiquidCrystal.h>

#include "dht.h"

#define dataPin A0

LiquidCrystal lcd(2, 3, 4, 5, 6, 7);

dht DHT;
```

```
int temp;

int hum;
```

```
void setup() {

    Serial.begin(9600);

    bt.begin(9600);

    Serial.println("Ready");

    lcd.begin(16,2);

    lcd.setCursor(0,0);

    lcd.print(" WELCOME To My ");

    lcd.setCursor(0,1);

    lcd.print("YouTube Channel");

    delay(2000);

    lcd.clear();

}
```

```
void loop(){  
    int readData = DHT.read11(dataPin);  
  
    hum = DHT.humidity;  
    temp = DHT.temperature;  
  
    lcd.setCursor(0,0);  
    lcd.print("Humidity: ");  
    lcd.print(hum);  
    lcd.print("% ");  
  
    lcd.setCursor(0,1);  
    lcd.print("Temp: ");  
    lcd.print(temp);  
    lcd.print((char)223); //degree symbol  
    lcd.print("C ");  
  
    bt.print(temp); //send distance to MIT App  
    bt.print(";");  
    bt.print(hum); //send distance to MIT App  
    bt.println(";");  
  
    delay(1000);  
}
```