**IBM PROJECT**

**ASSIGNMENT-2**

**BUILD A PYTHON CODE,ASSUME U GET TEMPERATURE AND HUMIDITY VALUES(GENERATED WITH A RANDOM FUNCTIONS TO A VARIABLE) AND WRITE A CONDITION TO CONTINUOSUSLY DETECT ALARMS IN CASE OF HIGH TEMPERATURE.**

#include <LiquidCrystal.h>

#include "DHT.h"

#define DHTPIN 8

#define DHTTYPE DHT11

LiquidCrystal lcd(1, 2, 4, 5, 6, 7);

DHT dht(DHTPIN, DHTTYPE);

const int yellowLED = 9;

const int blueLED = 10;

const int whiteLED = 11;

void setup() {

lcd.begin(16, 2);

lcd.setCursor(0, 0);

pinMode(blueLED, OUTPUT);

pinMode(yellowLED, OUTPUT);

pinMode(whiteLED, OUTPUT);

dht.begin();

digitalWrite(blueLED,LOW);

digitalWrite(yellowLED,LOW);

digitalWrite(whiteLED, LOW);

lcd.print("Temperature:");

lcd.setCursor(0, 1);

lcd.print("Humidity :"); .

}

void loop() {

delay(500);

float T = dht.readTemperature();

float H = dht.readHumidity();

if (isnan(H) && isnan(T)) { .

lcd.print("ERROR");

return;

}

if(T>22){

digitalWrite(yellowLED, HIGH);

digitalWrite(blueLED, LOW);

digitalWrite(whiteLED, LOW);

}

else if(T<22){

digitalWrite(blueLED, HIGH);

digitalWrite(yellowLED, LOW);

digitalWrite(whiteLED, LOW); }

else if(T=22){

digitalWrite(whiteLED, HIGH);

digitalWrite(yellowLED, LOW);

digitalWrite(blueLED, LOW);

}

lcd.setCursor(12, 0);

lcd.print(T);

lcd.setCursor(12, 1);

lcd.print(H);

}

**CIRCUIT DIAGRAM:**

