Experiment No. 12

Title: Write a program to show the temperature and Shows a graph of the recent measurements.

Roll No: SA&DC75 Batch: S9

Date of Performance: _ _ /_ _/_ _ _ _

Date of Assessment: _ _ /_ _/_ _ _ _

Particulars	Marks
Attendance (05)	
Journal (05)	
Performance (05)	
Understanding (05)	
Total (20)	
Signature of Staff Member	

Program:-

```
#include <SoftwareSerial.h>
SoftwareSerial bt(8, 9); // RX, TX


#include "dht.h"
#define dataPin A0

dht DHT;
int i = 0;
int temp;
int hum;

void setup() {

 Serial.begin(9600);
 bt.begin(9600);
 Serial.println("Ready");

 delay(2000);

pinMode(13, OUTPUT);

}

void loop(){
  int readData = DHT.read11(dataPin);

  hum = DHT.humidity;
  temp = DHT.temperature;


Serial.println();

Serial.println(hum);
  Serial.print("Humidity: ");

Serial.print(",");

Serial.print("Temp: ");
Serial.println(temp);
 Serial.print("o"); //degree symbol
Serial.print("C ");
Serial.print(",");

 bt.print(temp); //send distance to MIT App
 bt.print(";");
 bt.print(hum); //send distance to MIT App
 bt.println(";");
```

```
 if(temp>  31)
 {
    digitalWrite(13,  HIGH);   // turn the LED on (HIGH is the voltage  level)
    delay(1000);                    // wait for a second
 }
 else
 {
    digitalWrite(13,  LOW);   // turn the LED on (HIGH is the voltage  level)
    delay(1000);                    // wait for a second
 }

 delay(1000);
}
```

Diagram:-