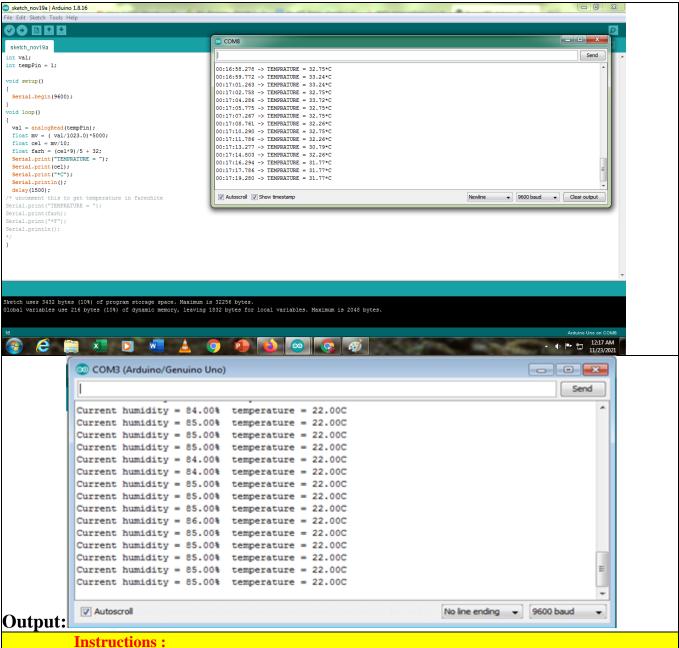
## Assignment No. 02

Write-iin		Documentation of Program	Viva	Timely Completion	LATOL	Dated Sign of Subject Teacher
4	4	4	4	4	20	

Theory;		Use	منابه مرام ماران		nk	for					
	3. Hardw	are: Raspberry -pi	"Arduino Ul	NO, LM35,Pato	en Coras, USB c	able type A/B.					
	<ol> <li>Software: Arduino IDE 1.8.3</li> <li>Hardware: Raspberry -pi,,Arduino UNO, LM35,Patch Cords, USB cable type A/B.</li> </ol>										
	1. Operating System: Windows (XP/Vista/7/10)										
Softwar	e & Hardwa	re Requiremen	ts:								
After completion of this assignment students will be able to understand the use of LM35 with the Arduino UNO and use of functions like void setup() and void loop (), Serial.println().											
Outcom	e:										
Objectiv		interfacing of LM3	35, with Ard	uino UNO							
temperature sensor.											
Problem	Statement	: Understandi	ng the con	nectivity of 1	the Arduino U	JNO circuit with					
Date of Performance: Date of Completion											



```
Source Code:
int tempPin = 1;
void setup()
 Serial.begin(9600);
void loop()
 val = analogRead(tempPin);
 float mv = (val/1023.0)*5000;
 float cel = mv/10;
 float farh = (cel*9)/5 + 32;
 Serial.print("TEMPRATURE = ");
 Serial.print(cel);
 Serial.print("*C");
 Serial.println();
 delay(1500);
/* uncomment this to get temperature in farenhite
Serial.print("TEMPRATURE = ");
Serial.print(farh);
Serial.print("*F");
Serial.println();
*/
```



## Handwritten write-up as follows:

Name of Student:

Batch:T1/T2

- Subject:LP-1
- Assessment table
- Title
- Objectives
- Problem statement
- Software and hardware requirements
- Theory: •
- What is Use of Temperature sensor?
- What are feature of LM35 Tempatrure Sesor?
- **Application of LM35 Sensor?**

Attach Program code and Its Output