Experiment No. 11

Title: Write a program so it displays the temperature
 In Fahrenheit as well as the maximum and minimum
Temperatures it has seen.

Roll No:SAI&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:-

```
int val;

int tempPin = 0;

float tfmax;

float tfmin = 100;

void setup()

{

 Serial.begin(9600);

}

void loop()

{

 val = analogRead(tempPin);

 float mv = ( val/1024.0)*500;

 float cel = mv;

 float farh = (cel*9)/5 + 32;


if (farh > tfmax)

{

 tfmax = farh;

}

if (farh < tfmin)

{

 tfmin = farh;

}

Serial.print("TEMPRATURE = ");

Serial.print(farh);

Serial.print("*F");

Serial.println();
```

```
Serial.print("Max  Temp:");

Serial.print(tfmax);

Serial.println();

Serial.print("Min  Temp:");

Serial.print(tfmin);

Serial.println();

Serial.println();

delay(2000);

}
```
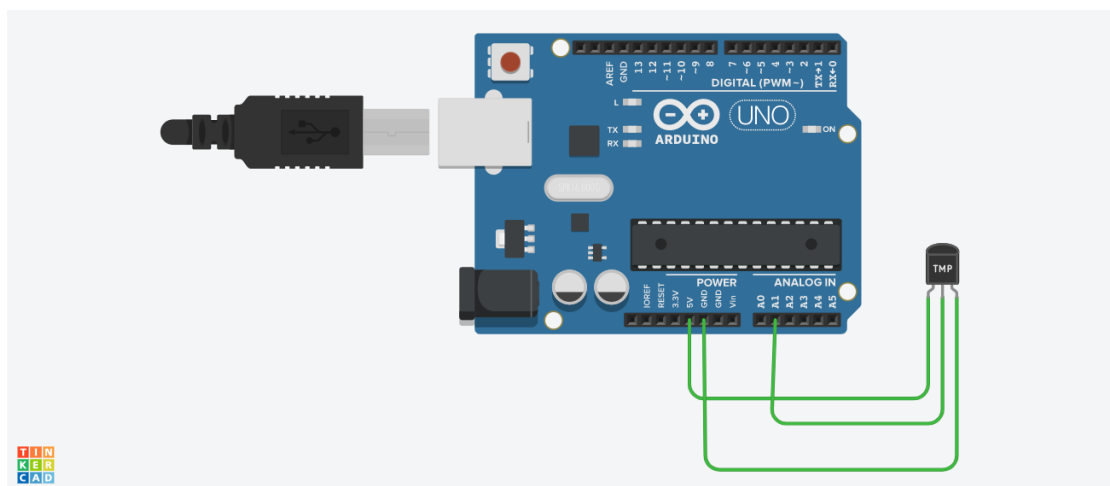
Circuit Diagram:-

Output:-