

Experiment No. 10

Title: Write a program read the temperature sensor and send the values to the serial monitor on the computer.

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	

```

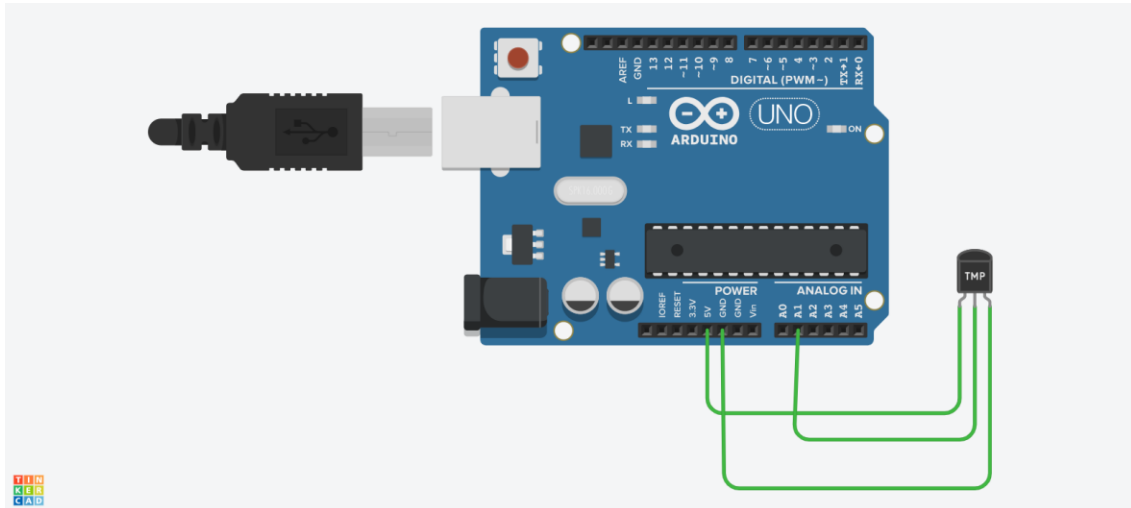
Program:-      int
baselineTemp  = 0;
int celsius = 0; int
fahrenheit = 0; void
setup()
{
    pinMode(A2,      INPUT);
    pinMode(13, OUTPUT);
    Serial.begin(9600);
}      void
loop()
{
    celsius = map(((analogRead(A2) - 20) * 3.04), 0, 1023, -40, 125);
    fahrenheit = ((celsius * 9) / 5 + 32);
    Serial.print(celsius);
    Serial.print(" C, ");

    Serial.print(fahrenheit)
;    Serial.println(" F");
    if (celsius > 40)
    {
        digitalWrite(13,HIGH);
    }
    else
    {
        digitalWrite(13,LOW);
    }
}

```

```
delay(1000);  
}
```

Circuit Diagram:-



Output:-

