Shaan Subbaiah B C - 1BM18CS096

Program no – 05

Program Title – Temperature sensor

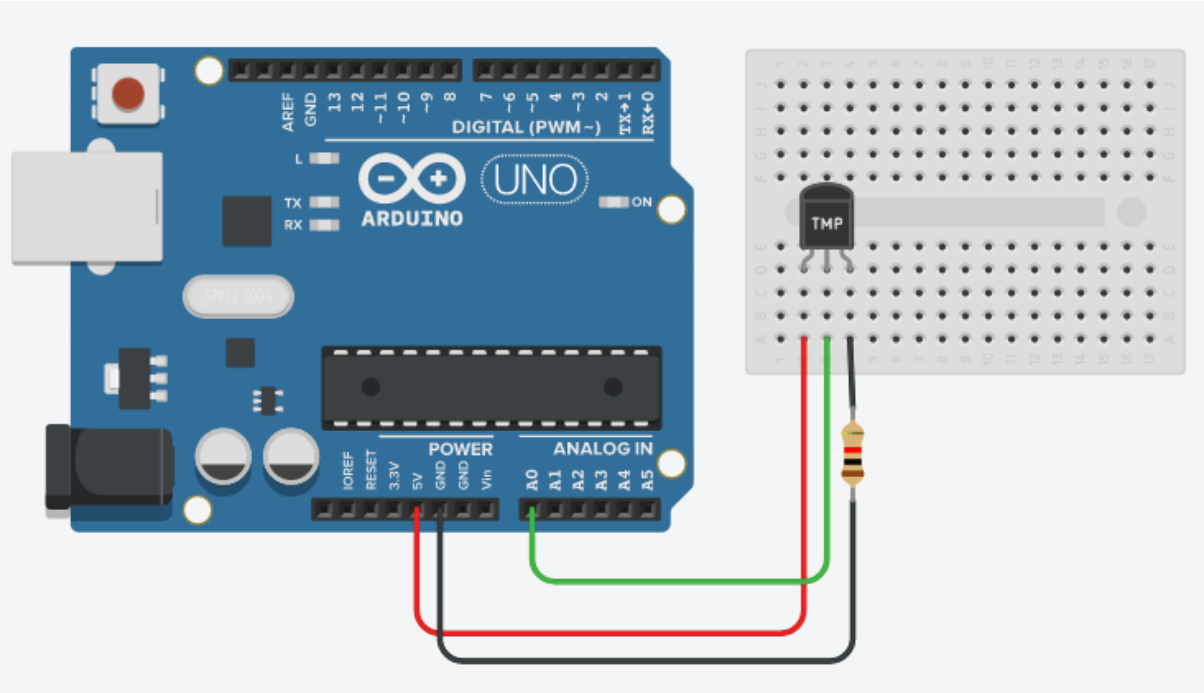
Aim

To log the temperature in Celcius and farenheit

Hardware Required

- Arduino Board
- Temperature Sensor
- 240 Ohm Resistor

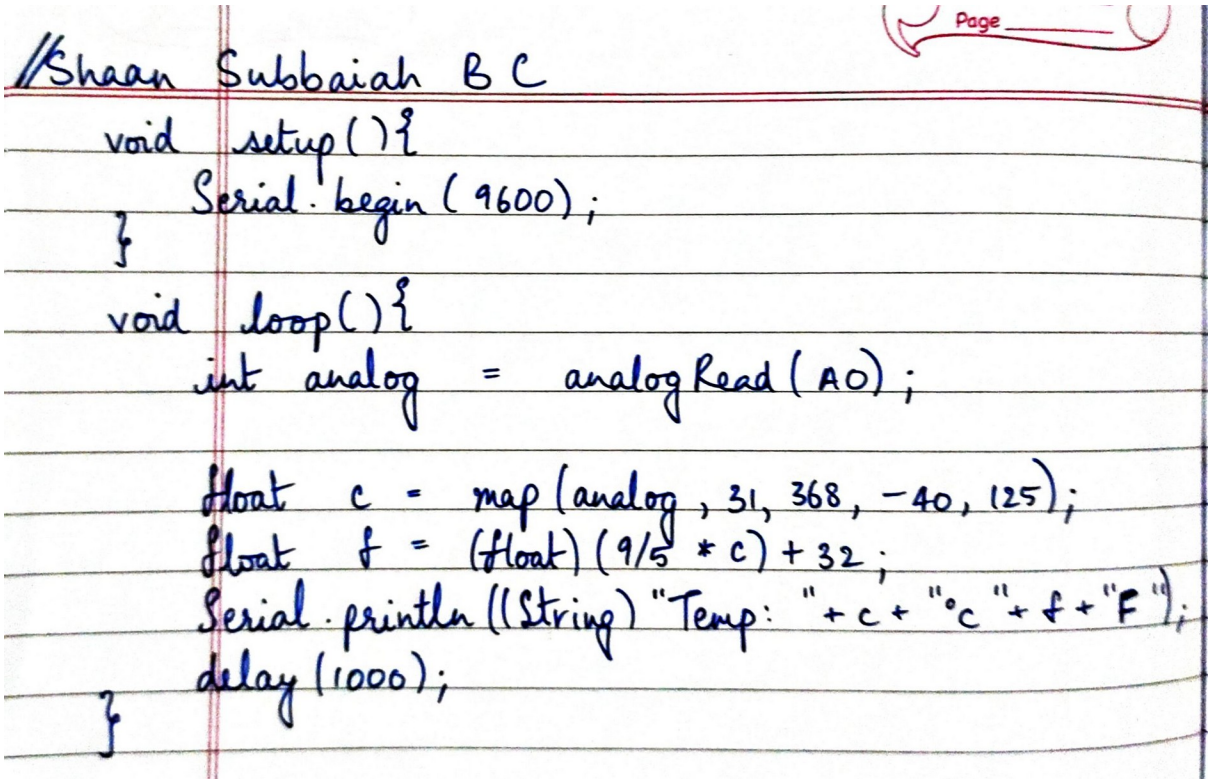
Circuit Diagram



Code:

```
// Shaan Subbaiah B C - 1BM18CS096
// TEMP SENSOR

void setup(){
```

```
 Serial.begin(9600);
}

void loop()
{
 int analog = analogRead(A0);
 // 31->-40    368->125

 float c = map(analog,31,368,-40,125);
 float f = (float)((9/5)*c)+32;
 Serial.println((String)"Analog: "+analog
        +", Temp: "+c+"C = "+f+"F");

 delay(1000);
}
```



Observation /Output

Temperature is logged in the Serial output.