IOT LAB - 5th Sem

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Program No : 05
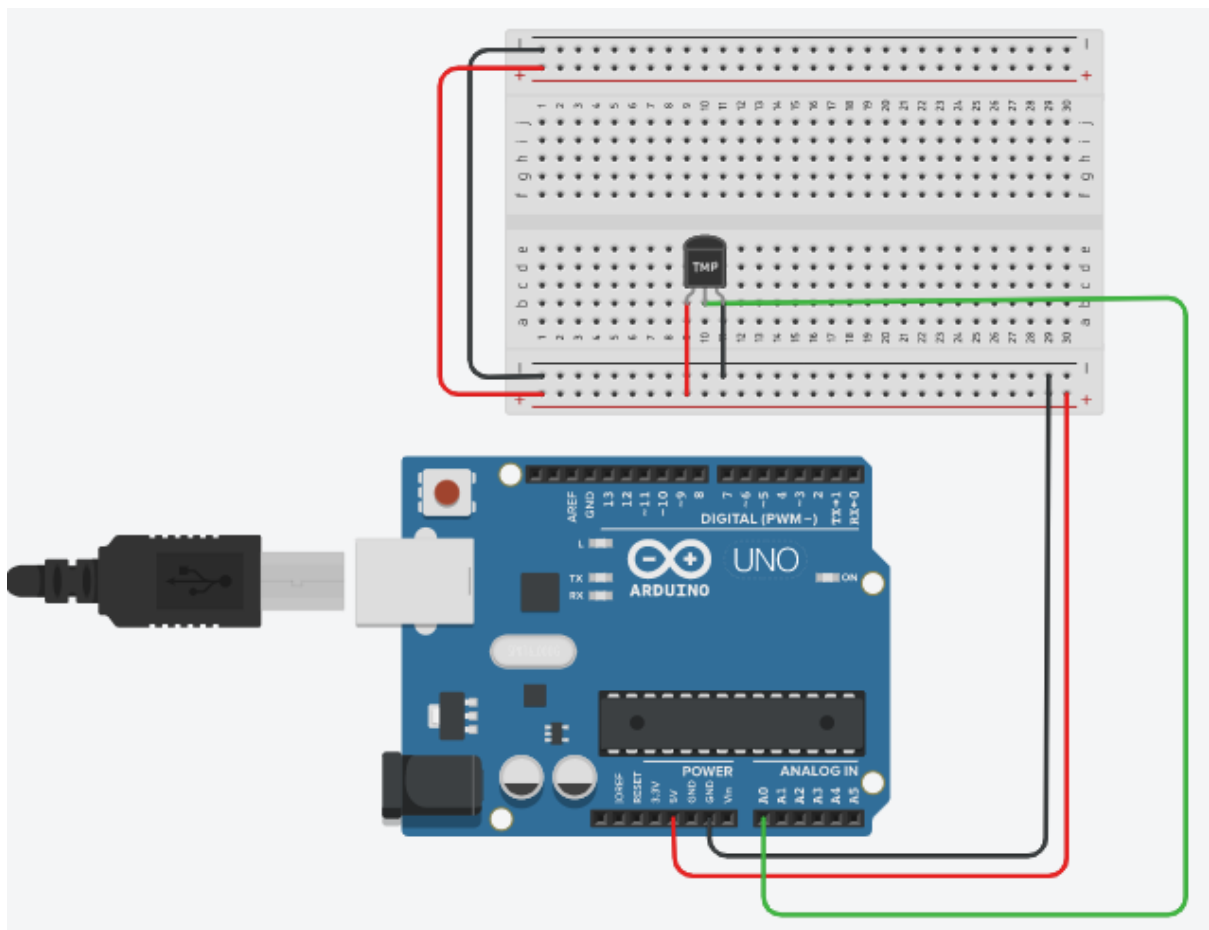
Program Title : Temperature Sensor

Aim :

To record the temperature in Celsius and Fahrenheit using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- Temperature Sensor

Circuit Diagram :

Written Code :

IoT LAB - 5

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```
int outputpin = 0;
void setup ()
{
    Serial.begin (9600);
}

void loop ()
{
    int rawvoltage = analogRead (outputpin);
    float millivolts = (rawvoltage /1024.0) * 5000;
    int tempc = millivolts /10;
    int tempf = ((tempc * 9) /5 + 32);
    Serial.println ("Temperature : ");
    Serial.print ("Celsius :");
    Serial.println (tempc);
    Serial.print ("Fahrenheit :");
    Serial.println (tempf);
    delay (3000);
}
```

Observation /Output :

The Temperature is observed in the serial output.