Lab 3 : Program 8

Date :30/09/20
Experiment : Temperature Sensor
Aim: To obtain temperature from Temperature sensor

Hardware:

- Arduino Uno
- Temperature Sensor

Source :

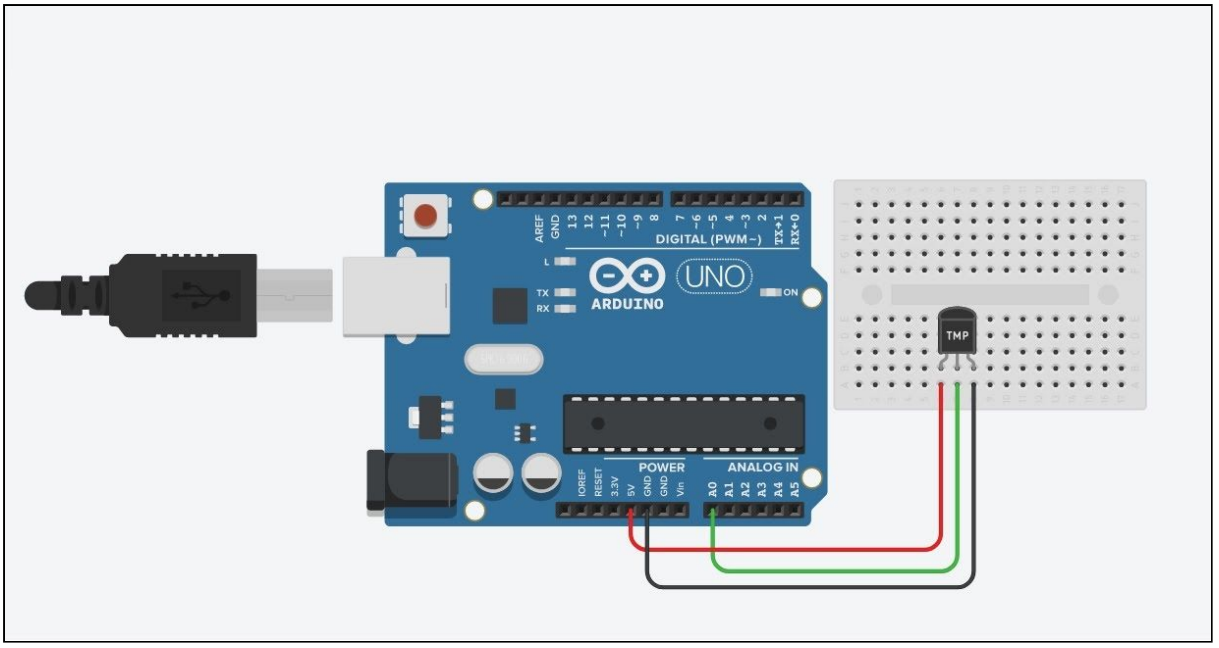
```
float temp;
int sensor = A0;

void setup() {
   Serial.begin(9600);
}

void loop() {
   temp = analogRead(sensor);
    temp = (temp * 0.4854369) - 49.271845 ;
   Serial.print("TEMPERATURE = ");
   Serial.print(temp);
   Serial.print("*C / ");
   Serial.print(((temp*9)/5)+32);
    Serial.print("*F\n");
   delay(1000);
}
```

Observation :
Temperature readings from analog voltage values were obtained.

Circuit :



Write Up :

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Source Code

```
float temp;
int sensor = A0;
void setup()
{ Serial.begin(9600);
}
void loop()
{ temp = analogRead(sensor);
  temp = (temp/1024)*5;
  temp = (temp -0.5)*100;
 // temp = (temp * -0.5) -50;
  Serial.println((String)" Temperature = " + temp
        +"°C/ "+(((temp*9)/5)+32)+"°F ");
  delay(1000);
}
```