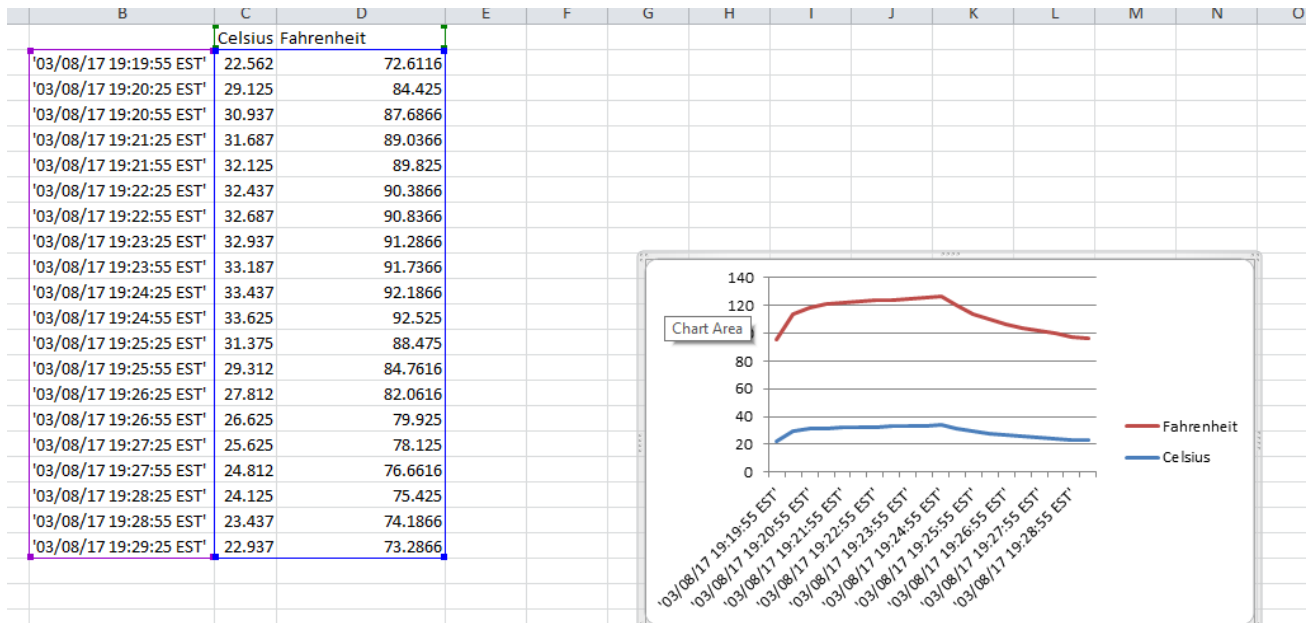


For the wiring, I wrapped the temperature sensor wires around three other wires and attached them to the breadboard. I then used three male to female wires to attach the bread board to the GPIO pins on the Pi with a resistor between the ground and output wires.

Code

```
1 import os
2 import time
3
4 def readTemp():
5     tempFile = open("/sys/bus/w1/devices/28-000006981b37/w1_slave")
6     text = tempFile.read()
7     currentTime = time.strftime('%x %X %Z')
8     tempFile.close()
9     tempC = float(text.split("\n")[1].split("t=")[1])/1000
10    tempF = tempC * 9.0 / 5.0 + 32.0
11    return [currentTime, tempC, tempF]
12 print readTemp()
```

This is the code for the temperature sensor. Here, the tempFile opens the location of the file containing the temperature information collected from the sensor. It reads the contents of the file and parses the string to get to the temperature in Celsius. Once that is complete, it converts it to Fahrenheit and returns the time with the temperature in Celsius and Fahrenheit.



Here, the temperature collected data for 10 minutes on a 30 second interval with the first 5 minutes in my hand and the next 5 minutes on the ground. As shown, there was a significant drop off once the sensor was on the ground.