```
readChannelID = 1583586;
% Temperature Field ID
TemperatureFieldID = 1;



readAPIKey = 'KD095PEXEM46L50L';


[temp, timeStamp] = thingSpeakRead(readChannelID,'Fields',[TemperatureFieldID,
5], ...

'numDays',1,'ReadKey',readAPIKey);


tempF = temp(:, 1);
h = temp(end);
t = tempF(end);
display(h);
display(t);
% Calculate the maximum and minimum temperatures
[maxTempF,maxTempIndex] = max(tempF);
[minTempF,minTempIndex] = min(tempF);

% Select the timestamps at which the maximum and minimum temperatures were
measured
timeMaxTemp = timeStamp(maxTempIndex);
timeMinTemp = timeStamp(minTempIndex);

display(maxTempF);
display(minTempF);


realFeel =  -8.78469475556 + 1.61139411*(t) + 2.33854883889*(h) -
0.14611605*(t*h)  - 0.012308094*(t*t) - 0.0164248277778*(h*h)+
0.002211732*(t*t*h) +  0.00072546*(t*h*h) - 0.000003582*(t*t*h*h);
f = t*(9/5) + 32


t2 = 0.363445176 + 0.988622465*(f) + 4.777114035*(h) - 0.114037667*(f*h)  -
(8.50208 * 10^-4)*(f*f) - (2.0716198 * 10^-2)*(h*h) + (6.87678 * 10^-4)*(f*f*h) +
(2.74954 * 10^-4)*(f*h*h) + (0)*(f*f*h*h);


t3 = 16.923 + 0.185212*(f) + 5.37941*(h) - (0.100254)*(f*h)  + (9.41695 * 10^-
3)*(f*f) + (7.28898 * 10^-3)*(h*h) + (3.45372 * 10^-4)*(f*f*h) -  (8.14971 * 10^-
4)*(f*h*h) + ((1.02102 * 10^-5))*(f*f*h*h) - (3.8646 * 10^-5)*(f*f*f) + (2.91583
* 10^-5)*(h*h*h) + (1.42721 * 10^-6)*(f*f*f*h) + (1.97483 * 10^-7)*(f*h*h*h) -
(2.18429 * 10^-8)*(f*f*f*h*h) + (8.43296 * 10^-10)*(f*f*h*h*h) - (4.81975 * 10^-
11)*(f*f*f*h*h*h);
realFeel
realFeel2 = (t2 - 32) * (5/9)
```

```
realFeel3 = (t3 - 32) * (5/9)


temperature = t
humidity = h
dewPoint = t - ((100 - h)./5)


display(realFeel);


% Replace the [] with channel ID to write data to:
writeChannelID = 1616771;
% Enter the Write API Key between the '' below:
writeAPIKey = '2IPBW9K69Y0U55UD';



thingSpeakWrite(writeChannelID, [maxTempF, minTempF, realFeel, dewPoint,
realFeel2, realFeel3],'WriteKey',writeAPIKey);
```