Table of Contents

Homework 1 Problem 1

Nolan Anderson Eng 101 2/4/2019

```
clear;
clc;
close all;
```

Vairables

```
ta = input('What is the current air temperature?  ');
fprintf('\n')
v = input('What is the current wind speed in miles per hour?   ');
```

Calculations

```
twc = 35.74 + 0.6215*ta-35.75*(v^.16)+0.4275*ta*(v^.16); % Equation
 for wind chill
difftemp = ta-twc; %Finds the difference in the outside temp and the
 wind chill
```

Output Statements

```
fprintf('\n')
fprintf('The wind chill is %f degrees Fahrenheit\n\n', twc);
fprintf('It feels %f colder than the actual air temperature\n\n',
 difftemp);
q1 = input('Is it cold outside for you? [Yes/No]  ', 's');
fprintf('\n')
if strcmp(q1, 'Yes') % strcmp(x,'s') compares strings to a variable,
 allowing the matricies to be equal.
    disp('Well, dress warmly')
elseif (q1)
    disp('Do not dress warmly')
end
```

Published with MATLAB® R2018b