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Professor Monshi

CMSC 203

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Assignment 1 Design Document

**Tests**

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| --- | --- | --- | --- | --- |
| Test Case # | Input | Expected Output | Actual Output | Did the test pass? |
| 1 | Temp: 30  Wind Speed: 20 | 17.36178376 | 17.361783756466323 | Yes |
| 2 | Temp: 15  Wind Speed: 15 | -0.1853245774 | -0.185324577436198 | Yes |
| 3 | Temp: -5  Wind Speed: 30 | -32.65579845 | -32.655798450601736 | Yes |

**Pseudo Code**

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| --- |
| Make a scanner named input  Prompt the user to enter the temperature in Fahrenheit  Declare a double named temp and initialize it to what the user entered  Check if temp is within –45 to 40, if it’s not within the parameters end the program, else continue  Prompt the user to enter the wind speed in MPH  Declare a double named windSpeed and initialize it to what the user entered  Check if the windSpeed is within 5 to 60, if it’s not within the parameters end the program, else continue  Declare a double named windChill and initialize it to the calculated wind chill based on the temp and windSpeed  Print out windChill to the screen |