**Assignment 1 Design: Wind Chill Temperature**

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**Pseudo code**

Import Scanner class

Print welcome message

Create Scanner object *keys*

Declare double variables *temp* and *wind*

Declare constant double NUM1 and initialize to 35.74

Declare constant double NUM2 and initialize to 35.75

Declare constant double NUM3 and initialize to 0.4275

Declare constant double NUM4 and initialize to 0.16

Declare constant double NUM5 and initialize to 0.6215

Prompt user to enter temperature

Read in temperature

If temperature is less -45 or more than 45

Print error message

Else

Prompt user to enter wind speed

Read in wind speed

If wind speed is less than 5 or more than 60

Print error message

Else

Declare double *windChill* using wind chill formula and constants

Print wind chill temperature

Print programmer name

Close Scanner object

**Test Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual input** | **Expected Output** | **Actual Output** | **Passed test?** |
| 1 | Temperature  Wind speed | 70  N/A | Program Terminated | Program Terminated | Yes |
| 2 | ‘ ‘  ‘ ‘ | 32  0 | Program Terminated | Program Terminated | Yes |
| 3 | ‘ ’  ‘ ’ | 32  20 | Wind Chill Temperature: 19.9855... | Wind Chill Temperature: 19.9855... | Yes |