**Pseudocode:**

Start

Create a new object of type Scanner that reads from the keyboard

Declare double temp

Declare double windSpeed

Declare double windChill

Declare double z

Display a header of the application

DO

Prompt the user to enter the temperature in Fahrenheit

Read the user’s input

WHILE (temp < -45 or temp > 40)

DO

Prompt the user to enter the wind speed

Read the user’s input

WHILE (windSpeed < 5 or windSpeed > 60)

Set z = windSpeed to the power of 0.16

windChill = 35.74 + 0.6215 \* temp - 35.75 \* z + 0.4275 \* temp \* z

Display the wind chill temperature that results

Display your name as programer

Close

**Test table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| **1** | **Temp: 30**  **Wind speed: 60** | **Temp: 30**  **Wind speed: 60** | **10.24690913** | **10.24690913423748** | **Passed** |
| **2** | **Temp: -15**  **Wind speed: 25** | **Temp: -15**  **Wind speed: 25** | **-44.14870395** | **-44.14870395506824** | **Passed** |
| **3** | **Temp:0**  **Wind speed: 45** | **Temp:0**  **Wind speed: 45** | **-29.99399816** | **-29.993998163815554** | **Passed** |