**WindChill Pseudo Code**:

1. Declare the following constant variables for the following formula: 35.74 + .6215T – 35.75v.16 + .4275Tv.16:
   * FIRST\_PART 🡨 35.74
   * SECOND\_PART 🡨 .6215
   * THIRD\_PART 🡨 35.75
   * FOURTH\_PART 🡨 .4275
   * EXPONENT 🡨 .16
2. Create the following non-constant variables for input and calculation:
   * temperature to hold temperature input from user
   * windVelocity to hold wind velocity from user
   * wtc to hold the result after the formula is plugged in
   * raisedWindVelocity to hold windVelocity to the EXPONENT power for easier calculations later.
3. Prompt the user for a temperature in Fahrenheit, make sure to specify that it must be greater than or equal to -45, and less than or equal to 40.
4. Record the user’s input in the variable temperature
5. Prompt the user for the wind velocity in miles per hour, specify that the speed must be greater than or equal to 5, and less than or equal to 60.
6. Record the user’s input in the variable windVelocity
7. Calculate what windVelocity raised to the EXPONENT power is: windVelocityEXPONENT. Store this in raisedWindVelocity
8. Calculate everything by plugging everything into the formula. Using the variables listed above, it should be: FIRST\_PART + (SECOND\_PART \* temperature) – (THIRD\_PART \* raisedWindVelocity) + (FOURTH\_PART \* temperature \* raisedWindVelocity)
9. Display the information to the user.
10. Display name at the bottom

**WindChill Flow Chart:**

A screenshot of a map

Description automatically generated

**WindChill Test Case:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | Input | Actual Input | Expected Output | Actual Output | Did it pass? |
| Case 1 | Temp:  30  Wind Speed:  20 |  | 17.36 |  |  |
| Case 2 | Temp:  15  Wind Speed:  12 |  | 1.40 |  |  |
| Case 3 | Temp:  0  Wind Speed:  27 |  | -24.84 |  |  |