**Pseudocode Assignment # 1**

1. Declare double variable temperature
2. Declare double variable for windspeed
3. Declare double variable for velocity and define as windSpeed to the power 0.16
4. Declare double variable windChill
5. Declare constant double variable for TEMP\_MIN = -45 and TEMP\_MAX = 40
6. Declare constant double variable for WIND\_MIN = 5 and WIND\_MAX=60
7. Declare constant string PROGRAMMER\_NAME= “Odalis R. Flores”
8. Declare constant integer for ASSIGNMENT\_NUMBER = 1
9. Display Wind Chill Temperature Index header
10. Declare string variable enterTemp for phrase please enter Fahrenheit temperature
11. Prompt user to enter Fahrenheit temperature
12. Get Fahrenheit temperature from user
    1. If temp is less than tempMin or greater than tempMax
       1. Display error message
       2. Prompt user to re-enter Fahrenheit temperature between -45 and 40
       3. Get Fahrenheit temperature from user
       4. Repeat until user enters correct range number
13. Declare string variable enterWind for phrase please enter wind speed
14. Prompt user to enter wind speed
15. Get wind speed from user
    1. If speed is less than windMin or greater than windMax
       1. Display error message
       2. Prompt user to re-enter user to enter wind speed
       3. Get wind speed from user
       4. Repeat until user enters correct range number
16. Calculate windChill =
    1. 35.75 + 0.615 \* temperature – 35.75 \* velocity + 0.4275 temperature \* velocity
17. Display the windChill temperature
18. Display PROGRAMMER\_NAME, ASSIGNMENT NUMBER and thank you message

**Test Plan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Temp: 30  Wind speed: 20 | Temp:30  Wind:20 | Wind chill temperature: 17.361783756466327 degrees Fahrenheit | Wind chill temperature: 17.361783756466327 degrees Fahrenheit | Y |
| 2 | temp: -15.5  wind speed: 35.3 | Temp: -15.5  Wind: 35.3 | Wind chill temperature:  -48.842359110042835 degrees Fahrenheit | Wind chill temperature:  -48.842359110042835 degrees Fahrenheit | Y |
| 3 | temp: -9.3  wind speed: 22.8 | Temp: -9.3  Wind: 22.8 | Wind chill temperature:  -35.55509110244696 degrees Fahrenheit | Wind chill temperature:  -35.55509110244696 degrees Fahrenheit | Y |
| 4 | Temp: 50  Wind speed: 0 | Temp:50  Temp:20  Wind: 0  Wind: 5 | Error, enter temp again  Error enter wind speed again  Wind chill temp: 12.86122853331558 degrees Fahrenheit | Error, enter temp again  Error enter wind speed again  Wind chill temp: 12.86122853331558 degrees Fahrenheit | Y |