Aelina Pogosian

CMSC 203; 30503

Professor Alexander

2/6/20

Pseudocode:

1. Start program
2. Declare an integer variable called temp
3. Declare an integer variable called wind
4. Print “Wind Chill Calculator”
5. Ask for temperature in Fahrenheit
   1. Remind user that temperature must be between -45 and 40 degrees Fahrenheit (inclusive).
6. User inputs temperature in Fahrenheit
7. Ask for wind speed in miles per hour
   1. Remind user that wind speed must be between 5 and 60 miles per hour (inclusive).
8. User inputs wind speed in miles per hour
9. Use formula: wind chill = 35.74 + 0.6215t – 35.75v+0.16+ 0.427a v+0.16
   1. Plug wind speed and temperature into the formula
   2. Calculate the wind chill
10. Display the wind chill in degrees Fahrenheit
11. State programmer’s name (Aelina Pogosian)

Test plan:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Temp:  30  Wind chill:  20 | Temp:  30  Wind chill:  20 | 17.361783756466327 | 17.361783756466327 | yes |
| 2 | Temp:  -15.5  Wind chill:  35.3 | Temp:  -15.5  Wind chill:  35.3 | -48.842359110042835 | -48.842359110042835 | Yes |
| 3 | Temp:  -9.3  Wind chill:  22.8 | Temp:  -9.3  Wind chill:  22.8 | -35.55509110244696 | -35.55509110244696 | yes |