

**Montgomery College**  
**CMSC 203**  
**Assignment 1 Design**

1) Pseudocode:

```
Start program at entry point
  Print program header and separator
  Prompt user to enter the temperature
  Remind user that the temperature must be between -45 and 40
  Save user's input for the temperature
  Prompt user to enter the wind speed
  Remind user that the wind speed must be between 5 and 60
  Save user's input for the wind speed
  Calculate the wind chill based on the values with the formula
    (Formula:  $35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$ )
  Print the calculated wind chill
  Print separator
  Print programmer name
Exit program
```

2) Test Table

Test Case #	Input	Actual Input	Expected Output	Actual Output	Did the test pass?
1	Temp: 30  Wind speed: 20	30, 20	17.4	17.36178375646 6327	Yes
2	Temp: -30  Wind speed: 50	-30, 50	-73.7	-73.73891019012 603	Yes
3	Temp: 40  Wind speed: 10	40, 10	33.6	33.64254827558 847	Yes