***Pseudocode for assignment-1***

By: Samuel Hailemichael

-Create a header for the program which includes programmers name, date and project name.

-Declare a decimal constant named CONSTANT\_1 which equals 35.74.

-Declare a decimal constant named CONATANT\_2 which equals 0.625.

-Declare a decimal constant named CONSTANT\_3 which equals 35.75.

-Declare a decimal constant named CONATANT\_4 which equals 0.4275.

-Declare the variable ***OutsideTemp*** as a decimal.

-Declare the variable ***Windspeed***as a decimal.

-Declare the variable ***Windchill*** as a decimal

-Ask the user for the value of ***OutsideTemp****.*

*-*Remind the user the value of ***OutsideTemp***can not be lower than-45 and can not be greater than 40.

-Ask the user for the value of ***Windspeed****.*

-Remind the user that the value of ***Windspeed*** can not be lower than 5 and can not be greater than 60.

-Assign ***Windchill*** to the constants and input data according to the formula below

***Wind Chill =*** CONSTANT\_1 ***+ (***CONATANT\_2)***OutsideTemp -*** CONSTANT\_3***((Windspeed*** *)****0.16) +(***CONATANT\_4)***OutsideTemp((Windspeed)0.16)***

-Print the value of the ***windchill*** as an output.

-print the programmers name which is Samuel Hailemichael.

***The expected output for the program***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Test case*** | ***input*** | ***Actual input*** | ***Expected output*** | ***Actual output*** | ***Did the test pass?*** |
| ***1*** | ***OutTemp=30***  ***Windspeed=20*** |  | ***windchill***=17.3617837565 |  |  |
| ***2*** | ***OutTemp=10***  ***Windspeed=32*** |  | ***Windcill=***-12.8461579595 |  |  |
| ***3*** | ***OutTemp=39***  ***Windspeed=10*** |  | ***windchill=***32.4031227736 |  |  |

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