Declare double fahrenheitTemp

Declare double windSpeed

Declare double windChill

Set new Scanner instance

Sysout Wind Chill Calculator

Sysout Enter the temperature in Fahrenheit (must be >= -45 and <= 40):

Set fahrenheitTemp to Scanner next double

Sysout Enter the wind speed (must be >= 5 and <= 60):

Set windSpeed to Scanner next double

Set windChill equal to 35.74 + 0.6215\*fahrenheitTemp - 35.75\*(windSpeed^.16) + 0.4275\*fahrenheitTemp\*(windSpeed^.16)

Sysout Wind chill temperature: <windChill> degrees Fahrenheit

Sysout Programmer: Abdul Akibu

Close scanner

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | Input | Actual Input | Expected Output | Actual Output | Did the test pass? |
| 1 | Temp:  30  Wind chill:  20 |  | 17.361783756466327 | 17.361783756466327 | yes |
| 2 | Temp:  15  Wind chill:  33 |  | -6.269162833516107 | -6.269162833516107 | yes |
| 3 | Temp:  -45  Wind chill:  60 |  | -98.09634499372375 | -98.09634499372375 | yes |