

Acceleration

ShowLogicErrors

ShowRuntimeErrors

ShowSyntaxErrors

WelcomeWithThreeMessages

WindChillTemperature

Source Packages

<default package>

WindChillTemperature.java

Test Packages

Libraries

Test Libraries

Start Page

WindChillTemperature.java

Acceleration.java

Source

History

```
1
2  port java.util.Scanner;
3
4
5  uthor vashishth
6  S-2571
7  /04/2022
8  ysics-Acceleration
9  is program is going to calculate the wind-chill temperature by taking in Temperature and velocity
10
11
12  blic class WindChillTemperature {
13  public static void main(String[] args) {
14      // Create Scanner
15      Scanner input = new Scanner(System.in);
16
17      // Taking the input in
18
19      //Enter the temperature in Fahrenheit
20      System.out.print("Enter the temperature in Fahrenheit between -58°F and 41°F: ");
21      double temperature = input.nextDouble();
22
23      //Enter the wind speed
24      System.out.print("Enter the wind speed (>= 2) in miles per hour: ");
25      double windSpeed = input.nextDouble();
26
27      //Calculate the wind-chill temperature
28      double windChill = 35.74 + ( 0.6215 * temperature ) - ( 35.75 * Math.pow(windSpeed,0.16) )
29                      + ( 0.4275 * temperature * Math.pow(windSpeed,0.16) );
30
31      // Printing the Output
32      System.out.println("The wind chill index is " + (int)(windChill * 100000) / 100000.0);
33  }
34
35
```

Output - WindChillTemperature (run)

run:
Enter the temperature in Fahrenheit between -58°F and 41°F: 5.3
Enter the wind speed (>= 2) in miles per hour: 6
The wind chill index is -5.56706
BUILD SUCCESSFUL (total time: 6 seconds)