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CMSC 203

Design Document(Project 1)

PSEUDOCODE and Test Table

**PSEUDOCODE**

Create a class WindChill.

Create main() method inside the WindChill class.

Inside main(), the coding is done as explained in the steps below.

1. An object of the Scanner class is created.

Scanner sc = new Scanner(System.in);

2. Declare double variables for temperature in Fahrenheit, speed of wind and wind chill temperature.

double T;

double V;

double windchillF;

3. User is prompted to enter the value of temperature in Fahrenheit between -45 and 40.

4. Store the user-entered value in the variable, T.

T = sc.nextDouble();

5. User is prompted to enter the value of wind speed between 5 and 60.

6. Store the user-entered value in the variable, V.

V = sc.nextDouble();

7. The value of wind chill temperature is calculated using the user-entered values in the given formula. The result of this computation is stored in the variable, windchillF.

8. This value is then displayed to the user on the console.

**Test Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Temp:  30  Wind chill:  20 | 30  20 | 17.361783756466327 | 17.361783756466327 | Yes |
| 2 | Temp:  -16  Wind chill:  40 | -16  40 | -51.05282624884582 | -51.05282624884582 | Yes |
| 3 |  |  |  |  |  |