Jiasheng Lu

CMSC 203

Design Document(Project 1)

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.

OUTLINE OF THE PROGRAM

import java.util.\*;

import java.util.Scanner;

public class Winchill {

public static void main(String args[]) {

// code to declare scanner object

// code to declare all variables

System.out.println("Enter the temperature in Fahrenheit (must be >= -45 and <= 40): ");

// code to take user input

System.out.println("Enter the wind speed (must be >= 5 and <= 60): ");

// code to take user input

// formula to calculate wind chill temperature and store in variable, windchillF

System.out.println("Wind chill temperature: " + windchillF + " degrees Fahrenheit.");

}

}