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Java Programming

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**Project 5-1 Temperature**

**Source Code:**

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import java.util.Scanner;

public class AverageTemperature {

public static void main(String[] args) {

// Declaring the arrays

String[] days = {"Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"};

double[] temperature = {75, 82, 77, 91, 79, 73, 87};

Scanner scnr = new Scanner(System.in);

// Getting a user input for the day

System.out.println("Please enter a day of the week (Monday-Sunday), or enter 'week' to see the weekly average: ");

String input = scnr.nextLine();

// If the user input 'week' then the average and days will all be displayed

if(input.equalsIgnoreCase("week")) {

double totalTemp = 0;

System.out.println();

System.out.println("Temperatures for each day and the weekly average: ");

// Loop to display each day with corresponding temperature

for (int i = 0; i < days.length; i++) {

totalTemp += temperature[i];

System.out.println(days[i] + " - " + temperature[i] + " degrees");

}

// Calculating the average temperature

double averageTemp = (double) totalTemp / days.length;

System.out.printf("The average temperature for the week is: %.2f degrees\n", averageTemp);

}

else {

// Otherwise, the input day will be displayed with the temperature

boolean result = false;

System.out.println();

System.out.println("Day of the week and temperature of the day: ");

// For loop to display temperature for the input day, loop ends when a the match is found

for (int i = 0; i < days.length; i++) {

if (input.equalsIgnoreCase(days[i])) {

System.out.println(days[i] + " - " + temperature[i] + " degrees");

result = true;

break;

}

}

// Checks that the input is valid

if (!result) {

System.out.println("Invalid input. Please enter a valid day or 'week'.");

}

}

}

}

**Executing the Application:**









