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Calculator.java WeatherDataApp.java ×
1 package com.calculator;
2 import java.util.Scanner;
3
4 public class WeatherDataApp {
5     public static void main(String[] args) {
6         WeatherDataApi api = new WeatherDataApi();
7         Scanner scanner = new Scanner(System.in);
8
9         int choice;
10
11         do {
12             printMenu();
13             choice = scanner.nextInt();
14             scanner.nextLine(); // Consume the newline character
15
16             switch (choice) {
17                 case 1:
18                     getTemperature(api, scanner);
19                     break;
20                 case 2:
21                     getWindSpeed(api, scanner);
22                     break;
23                 case 3:
24                     getPressure(api, scanner);
25                     break;
26                 case 0:
27                     System.out.println("Exiting the program. Goodbye!");
28                     break;
29                 default:
30                     System.out.println("Invalid option. Please choose a valid option.");

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31     }
32     } while (choice != 0);
33
34     scanner.close();
35 }
36
37 private static void printMenu() {
38     System.out.println("Choose an option:");
39     System.out.println("1. Get Temperature");
40     System.out.println("2. Get Wind Speed");
41     System.out.println("3. Get Pressure");
42     System.out.println("0. Exit");
43     System.out.print("Enter your choice: ");
44 }
45
46 private static void getTemperature(WeatherDataApi api, Scanner scanner) {
47     System.out.print("Enter the date with time (e.g., '2023-10-03 14:30'): ");
48     String dateTime = scanner.nextLine();
49     double temperature = api.getTemperature(dateTime);
50     System.out.println("Temperature on " + dateTime + " is " + temperature + " degrees Celsius.");
51 }
52
53 private static void getWindSpeed(WeatherDataApi api, Scanner scanner) {
54     System.out.print("Enter the date with time (e.g., '2023-10-03 14:30'): ");
55     String dateTime = scanner.nextLine();
56     double windSpeed = api.getWindSpeed(dateTime);
57     System.out.println("Wind Speed on " + dateTime + " is " + windSpeed + " m/s.");
58 }
59
60 private static void getPressure(WeatherDataApi api, Scanner scanner) {

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56         double windSpeed = api.getWindSpeed(dateTime);
57         System.out.println("Wind Speed on " + dateTime + " is " + windSpeed + " m/s.");
58     }
59
60     private static void getPressure(WeatherDataApi api, Scanner scanner) {
61         System.out.print("Enter the date with time (e.g., '2023-10-03 14:30'): ");
62         String dateTime = scanner.nextLine();
63         double pressure = api.getPressure(dateTime);
64         System.out.println("Pressure on " + dateTime + " is " + pressure + " hPa.");
65     }
66 }
67
68 class WeatherDataApi {
69     public double getTemperature(String dateTime) {
70
71         return 25.5;
72     }
73
74     public double getWindSpeed(String dateTime) {
75
76         return 5.8;
77     }
78
79     public double getPressure(String dateTime) {
80
81         return 1013.2;
82     }
83 }
84
85

```

Output:

```

@ Javadoc Declaration Search Console × Coverage Servers
<terminated> WeatherDataApp [Java Application] C:\Users\chatt\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86
Choose an option:
1. Get Temperature
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 1
Enter the date with time (e.g., '2023-10-03 14:30'): 1
Temperature on 1 is 25.5 degrees Celsius.
Choose an option:
1. Get Temperature
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 2
Enter the date with time (e.g., '2023-10-03 14:30'): 2
Wind Speed on 2 is 5.8 m/s.
Choose an option:
1. Get Temperature
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 3
Enter the date with time (e.g., '2023-10-03 14:30'): 3
Pressure on 3 is 1013.2 hPa.
Choose an option:
1. Get Temperature
2. Get Wind Speed
3. Get Pressure
0. Exit
Enter your choice: 0
Exiting the program. Goodbye!

```