

Option #1

Pseudocode

Class Module5

```
INITIALIZE integer array weeklyTemps = [65, 71, 73, 70, 85, 82, 82]
INITIALIZE string array daysOfWeek = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday"]
```

```
OUTPUT "Enter a day of the week. Enter 'week' for all days:"
```

```
READ userInput from user
```

```
TRIM any extra whitespace from userInput
```

```
IF userInput equals "week" (ignoring case) THEN
    FOR each index i from 0 to length of daysOfWeek - 1 DO
        DISPLAY daysOfWeek[i] + ": " + weeklyTemps[i]
    END FOR
ELSE
    FOR each index i from 0 to length of daysOfWeek - 1 DO
        IF daysOfWeek[i] equals userInput (ignoring case) THEN
            DISPLAY daysOfWeek[i] + ": " + weeklyTemps[i]
            EXIT loop
        END IF
    END FOR
END IF
```

Source Code

```
import java.util.Scanner;

public class Module5 {
    public static void main(String[] args) {
        Scanner scnr = new Scanner(System.in);
        int[] weeklyTemps = { 65, 71, 73, 70, 85, 82, 82 };
        String[] daysOfWeek = { "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday",
"Saturday" };
        String userInput;
        int i;

        System.out.println("Enter a day of the week. Enter 'week' for all days:");
        userInput = scnr.next().trim();

        if (userInput.equalsIgnoreCase("week")) {
            for (i = 0; i < daysOfWeek.length; ++i) {
```

```

        System.out.println(daysOfWeek[i] + ": " + weeklyTemps[i]);
    }
} else {
    for (i = 0; i < daysOfWeek.length; ++i) {
        if (daysOfWeek[i].equalsIgnoreCase(userInput)) {
            System.out.println(daysOfWeek[i] + ": " + weeklyTemps[i]);
            break;
        }
    }
}

}

}
}

```

Screenshots:

```

PS C:\Users\andre\Documents\VMSCSO_Prereqs\CS320\Critical_Thinking\Module5> java Module5.java
Enter a day of the week. Enter 'week' for all days:
Tuesday
Tuesday: 73

```

```

PS C:\Users\andre\Documents\VMSCSO_Prereqs\CS320\Critical_Thinking\Module5> java Module5.java
Enter a day of the week. Enter 'week' for all days:
week
Sunday: 65
Monday: 71
Tuesday: 73
Wednesday: 70
Thursday: 85
Friday: 82
Saturday: 82

```

Git Repository:

https://github.com/ac-potts/CS320_CritThinking/tree/main/Module5