

Name(s): _____ Due: _____

Personalization and Commenting Requirements:

- *All source code must contain a comment with the source file name, programmer(s) names(s) and date created*
- *Commenting at top should include the purpose of the program*
- *Appropriate, clear commenting must be used throughout the code; be professional and pay attention to spelling*
- *All applications should start with an output to the screen that contains the name of the application and the programmer(s)*
- *Name the programs as shown on this project sheet*

USE ECLIPSE**Chapter 7 Requirements**1. *Package Name: Michigan*

Program Name: Michigan.java - Console Application -- This program allows the user to input the high temperature in degrees for seven days and analyzes this data in various ways.

- Use an array in your solution; this array should contain the seven entries made by the user
 - Use a for loop to prompt the user for each response and store it in the array
- Count the number of frigid days, cold days, warm days and hot days, using this criteria:
 - A frigid day is 30 or less degrees
 - A cold day is 31-50 degrees
 - A warm day is 51-70 degrees
 - A hot day is 71 degrees or more
- Display the number of frigid, cold, warm and hot days
- Calculate the average temperature for the week
- Display the average temperature
- Display the highest temperature that occurred
- Display the lowest temperature that occurred

2. *Package Name: Rent*

Program Name: Rent.java – An apartment leasing company needs a program that will determine the rent for an apartment, which depends on which level the apartment is on and how many bedrooms the apartment has, based on this information:

	<i>0 bedrooms (studio)</i>	<i>1 bedroom</i>	<i>2 bedrooms</i>	<i>3 bedrooms</i>
<i>Level 0 (garden level)</i>	750.00	850.00	950.00	1050.00
<i>Level 1 (basic)</i>	900.00	1000.00	1100.00	1200.00
<i>Level 2 (deluxe)</i>	1075.00	1175.00	1275.00	1375.00

- Write an application that:
 - Allows users to input what level they want and how many bedrooms they want. Use data validation to prevent your user from entering bad data.
 - Utilize a two-dimensional array in your solution. Extract the proper amount from the table and display it.
 - You may choose console-based or GUI

3. *Package Name: Languages*

Program Name: Languages.java – Download *Languages.java* from the “Project 5 Chapter 7 Requirement #3” link in Blackboard, found in the Project 5 folder, import it into your Eclipse package, and follow the instructions found in the comments.

Submitting: Place all of the packages into a folder; zip that folder and submit in Blackboard.