Ben Brandhorst CMIS 141 December 7<sup>th</sup> 2018

## **HOMEWORK 4**

| INPUT          | EXPECTED OUTPUT                     | ACTUAL OUTPUT                        | PASS ?? |
|----------------|-------------------------------------|--------------------------------------|---------|
| SCANNER INPUT: | **OUTPUT**                          | **OUTPUT**                           | YES     |
| 1234           | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
| -6789          | 1234 doesn't exist in array.        | 1234 doesn't exist in array.         |         |
| california     | Enter State or None to Exit         | Enter State or None to Exit          |         |
| ohIO           | -6789 doesn't exist in array.       | -6789 doesn't exist in array.        |         |
| NoNE           | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
|                | Bird: California Valley Quail       | Bird: California Valley Quail        |         |
|                | Flower: Golden Poppy                | Flower: Golden Poppy                 |         |
|                | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
|                | Bird: Cardinal                      | Bird: Cardinal                       |         |
|                | Flower: Scarlet Carnation           | Flower: Scarlet Carnation            |         |
|                | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
|                | **** Thank you ****                 | **** Thank you ****                  |         |
|                | A summary report for each State,    | A summary report for each State,     |         |
|                | Bird, and Flower is: California,    | Bird, and Flower is: California,     |         |
|                | California Valley Quail, Golden     | California Valley Quail, Golden      |         |
|                | Poppy, Ohio, Cardinal, Scarlet      | Poppy, Ohio, Cardinal, Scarlet       |         |
|                | Carnation.                          | Carnation.                           |         |
|                | Please visit our site again!        | Please visit our site again!         |         |
| SCANNER INPUT: | **OUTPUT**                          | **OUTPUT**                           | YES     |
| NEBRASKA       | Bird: Western Meadowlark            | Bird: Western Meadowlark             |         |
| Rhode Island   | Flower: Goldenrod                   | Flower: Goldenrod                    |         |
| montana        | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
| none           | Bird: Rhode Island Red              | Bird: Rhode Island Red               |         |
|                | Flower: Violet                      | Flower: Violet                       |         |
|                | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
|                | Bird: Western Meadowlark            | Bird: Western Meadowlark             |         |
|                | Flower: Bitterroot                  | Flower: Bitterroot                   |         |
|                | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
|                | **** Thank you ****                 | **** Thank you ****                  |         |
|                | A summary report for each State,    | A summary report for each State,     |         |
|                | Bird, and Flower is: Nebraska,      | Bird, and Flower is: Nebraska,       |         |
|                | Western Meadowlark, Goldenrod,      | Western Meadowlark, Goldenrod,       |         |
|                | Rhode Island, Rhode Island Red,     | Rhode Island, Rhode Island Red,      |         |
|                | Violet, Montana, Western            | Violet, Montana, Western             |         |
|                | Meadowlark, Bitterroot.             | Meadowlark, Bitterroot.              |         |
|                | Please visit our site again!        | Please visit our site again!         |         |
| SCANNER INPUT: | **OUTPUT**                          | **OUTPUT**                           | YES     |
| !@#\$%^&*()    | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
| New Mexico     | !@#\$%^&*() doesn't exist in array. | $!@#$%^&*()$ doesn't exist in array. |         |
| GeorgiA        | Enter a State or None to Exit       | Enter a State or None to Exit        |         |
| Oklahoma       | Bird: Roadrunner                    | Bird: Roadrunner                     |         |
| NONE           | Flower: Yucca                       | Flower: Yucca                        |         |

Enter a State or None to Exit Bird: Brown Thrasher Flower: Cherokee Rose Enter a State or None to Exit Bird: Scissor-tailed Flycatcher

Flower: Mistletoe

Flycatcher, Mistletoe.

Please visit our site again!

Enter a State or None to Exit

\*\*\*\* Thank you \*\*\*\*\*
A summary report for each State,
Bird, and Flower is: New Mexico,
Roadrunner, Yucca, Georgia, Brown
Thrasher, Cherokee Rose,
Oklahoma, Scissor-tailed

Enter a State or None to Exit Bird: Brown Thrasher Flower: Cherokee Rose Enter a State or None to Exit Bird: Scissor-tailed Flycatcher

Flower: Mistletoe

Enter a State or None to Exit

\*\*\*\* Thank you \*\*\*\*\*

A summary report for each State, Bird, and Flower is: New Mexico, Roadrunner, Yucca, Georgia, Brown Thrasher, Cherokee Rose, Oklahoma, Scissor-tailed Flycatcher, Mistletoe. Please visit our site again!

## **TEST CASE 1: OUTPUT**

```
Econsole X R Problems Debug Shell

StateInfoDemo [Java Application] /usr/llb/pm/java-8-oracle/bin/java (Dec 7, 2018, 10:35:38 AM)

Enter a State or None to Exit
1234
1234 doesn't exist in array.
Enter a State or None to Exit
-6789
-6789 doesn't exist in array.
Enter a State or None to Exit
california
Bird: California Valley Quail
Flower: Golden Poppy
Enter a State or None to Exit
ohlo
Bird: Cardinal
Flower: Scarlet Carnation
Enter a State or None to Exit
NoNE

**** Thank you *****
A summary report for each State, Bird, and Flower is: California, California Valley Quail, Golden Poppy, Ohio, Cardinal, Scarlet Carnation.
Please visit our site again!

Enter a State or None to Exit
```

## **TEST CASE 2: OUPUT**

## **TEST CASE 3: OUTPUT**

StateInfo.java EXAMPLE:

```
🞣 *StateInfo.java 🗙 🚜 StateInfoDemo.java

ℳ HeadPhone.java

                                      1 import java.util.*;
                                                   6 /*
                                                                                                                                  Inear search.

ing[][] states = {

{ "alabama", "Alabama", "Yellowhammer", "Camellia"},

{ "alaska", "Alaska", "Willow Ptarmigan", "Forget-me-not"},

{ "arizona", "Arizona", "Cactus Wren", "Saguaro Cactus"},

{ "arizona", "Arkansas", "Mockingbird", "Apple Blossom"},

{ "california", "California", "California Valley Quail", "Golden Poppy"},

{ "colorado", "Colorado", "Lark Bunting", "Rocky Mountain Columbine"},

{ "connecticut", "Connecticut", "Robin", "Mountain Laurel"},

{ "delaware", "Delaware", "Blue Hen Chicken", "Peach Blossom"},

{ "florida", "Florida", "Mockingbird", "Orange Blossom"},

{ "georgia", "Georgia", "Brown Thrasher", "Cherokee Rose"},

{ "hawaii", "Hawaii", "Nene", "Hibiscus"},

{ "idaho", "Idaho", "Mountain Bluebird", "Syringa"},

{ "illinois", "Illinois", "Cardinal", "Native Violet"},

{ "indiana", "Indiana", "Cardinal", "Peony"},

{ "iowa", "Iowa", "Eastern Goldfinch", "Wild Rose"},

{ "kentucky", "Kentucky", "Cardinal", "Goldenrod"},

{ "louisiana", "Louisiana", "Brown Pelican", "Magnolia"},

{ "maine", "Maine", "Chickadee", "Pine Cone & Tassle"},

{ "maryland", "Maryland", "Baltimore Oriole", "Black Eyed Susan"},

{ "maryland", "Maine", "Chickadee", "Pine Cone & Tassle"},

{ "missouri", "Missouri", "Robin", "Apple Blossom"},

{ "minnesota", "Minnesota", "Common Loon", "Lady Slipper"},

{ "missouri", "Missouri", "Bluebird", "Hawthorn"},

{ "morthana", "Nebraska", "Western Meadowlark", "Bitterroot"},

{ "nevada", "Nevada", "Mountain Bluebird", "Sagebrush"},

{ "nevada", "Nevada", "Mountain Bluebird", "Sagebrush"},

{ "new hampshire", "New Hampshire", "Purple Finch", "Purple Violet"},

{ "new ware, "Nebraska", "Buebird", "Rose"},

{ "new york", "New York", "Bluebird", "Rose"},

{ "new york", "New York", "Bluebird", "Rose"},

{ "new hampshire", "North Carolina", "Cardinal", "Dogwood"},

{ "north carolina", "North Carolina", "Scarlet Carnation"},

{ "north dakota", "North Dakota", "Western Meadowlark", "Wild Prairie Rose"},

{ "ohio", "Ohio", "Cardinal", "Scarlet Carnation"},

{ "oklahoma", "O
                                                                                          String[][] states = {
```

StateInfo.java EXAMPLE Continued:

```
🔊 *Statelnfo.java 🗶 🎝 StatelnfoDemo.java
                                                                                                  Ava X () StateInfoDemo.java () HeadPhone.java

{"oklahoma", "Oklahoma", "Scissor-tailed Flycatcher", "Mistletoe"},
 {"oregon", "Oregon", "Western Meadowlark", "Oregon Grape"},
 {"pennsylvania", "Pennsylvania", "Ruffed Grouse", "Mountain Laurel"},
 {"rhode island", "Rhode Island", "Rhode Island Red", "Violet"},
 {"south carolina", "South Carolina", "Great Carolina Wren", "Yellow Jessamine"},
 {"south dakota", "South Dakota", "Ring-necked Pheasant", "Pasque Flower"},
 {"tennessee", "Tennessee", "Mockingbird", "Purple Iris"},
 {"texas", "Texas", "Mockingbird", "Texas Blue Bonnet"},
 {"utah", "Utah", "American Seagull", "Sego Lily"},
 {"vermont", "Vermont", "Hermit Thrush", "Red Clover"},
 {"virginia", "Virginia", "Cardinal", "Dogwood"},
 {"washington", "Washington", "Willow Goldfinch", "Western Rhododendron"},
 {"wisconsin", "Wisconsin", "Robin", "Wood Violet"},
 {"wyoming", "Wyoming", "Western Meadowlark", "Indian Paint Brush"},
 {"BLANK", "INPUT", "USED", "FOR COUNTER"}};
   65
66
                    StringBuilder wrapUp =
                               new StringBuilder("A summary report for each State, Bird, and Flower is: ");
                    public StateInfo() {}
     78⊜
                    public void findState() {
                         String lowerCaseInput;
                          Scanner keyboard = new Scanner(System.in);
                          lowerCaseInput = keyboard.nextLine().toLowerCase().trim();
                          for (i = 0; i < 51; i++) {
                               if (lowerCaseInput.equals(states[i][0])) {
                                   wrapUp.append(states[i][1] + ", ");
wrapUp.append(states[i][2] + ", ");
wrapUp.append(states[i][3] + ", ");
// prints state bird and flower of whatever state was matched
                                    System.out.println("Bird: " + states[i][2]);
```

StateInfo.java EXAMPLE Continued:

```
lowerCaseInput = keyboard.nextLine().toLowerCase().trim();
              if (lowerCaseInput.equals("none")) {
              while (i == 50) {
                System.out.println(lowerCaseInput + " doesn't exist in array.");
System.out.println("Enter a State or None to Exit");
                 lowerCaseInput = keyboard.nextLine().toLowerCase().trim();
           if (wrapUp.length() > 54) {
  wrapUp.setLength(wrapUp.length() - 2);
              wrapUp.append(".");
            // prints wrapUp of all outputs displayed previously and stops program
System.out.println("");
System.out.println("**** Thank you *****");
            System.out.println(wrapUp);
System.out.println("Please visit our site again!");
System.out.println("");
 139
140
```

**StateInfoTest.java EXAMPLE:**