Clarissa Kuter
CSC320 Programming I
Reginald Haseltine
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Get Weekly Temperatures

start

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Declarations
      String userInput;
      double weekly Average = 0.0;
      double sum = 0.0;
      int i;
      Boolean dayFound = false;
      ArrayList<String> daysOfTheWeek = new ArrayList<String>();
             daysOfTheWeek.add("Monday");
             daysOfTheWeek.add("Tuesday");
             daysOfTheWeek.add("Wednesday");
             daysOfTheWeek.add("Thursday");
             daysOfTheWeek.add("Friday");
             daysOfTheWeek.add("Saturday");
             daysOfTheWeek.add("Sunday");
      ArrayList<Double> dailyTemperatures = new ArrayList<Double>();
             dailyTemperatures.add(43.75);
             dailyTemperatures.add(46.12);
             dailyTemperatures.add(46.87);
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dailyTemperatures.add(44.12);
              dailyTemperatures.add(35.62);
              dailyTemperatures.add(37.62);
              dailyTemperatures.add(45.00);
for (i = 0; i < dailyTemperatures.size(); ++i) 
       sum = sum + dailyTemperatures.get(i);
}
weeklyAverage = sum / dailyTemperatures.size();
output "What day of the week (Monday – Sunday) would you like the temperature for?"
output "If you would like the temperature for every day of the week, enter the word
'week'."
output "If you would like to quit the program, enter the word 'quit'."
input userInput
while (userInput != "quit"){
       i = 0;
       dayFound = false;
       while (dayFound == false){
              if (userInput != "week"){
                     if (i < 7){
                             if (userInput == daysOfTheWeek.get(i)){
                                    dayFound = true;
                                    output "On ", daysOfTheWeek.get(i), ", the average
                                    temperature was ", dailyTemperatures.get(i), "
                                    degrees Fahrenheit."
                             }
                             else {
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}
                             }
                             else if (i \ge 7)
                                     dayFound = true;
                                     output "The day you entered is invalid. Please enter either
                                     the word 'week' or one of the following days: Monday,
                                     Tuesday, Wednesday, Thursday, Friday, Saturday,
                                     Sunday."
                             }
                      }
                      else if (userInput == "week"){
                             dayFound = true;
                             for (i = 0; i < daysOfTheWeek.size(); ++i) {
                                     output "On ", daysOfTheWeek.get(i), ", the average
                                     temperature was ", dailyTemperatures.get(i), " degrees
                                     Fahrenheit."
                             }
                             output "The average temperature for the whole week is ",
                             weeklyAverage, "degrees."
                      }
              output "What would you like the temperature for next? To quit, enter the word
               'quit'."
              input userInput
       }
       if (userInput == "quit"){
              System.exit(0);
       }
stop
```

++i;

