**Generate Weather Data Summary**

Get File Name

Get Date

Display Headings

Process Each Weather Entry

Compute Averages

Store Average Summary

**Get File Name**

Display “Enter Name of File: “ to user

Get fileName from user

**Get Date**

Display “Enter Today’s Date: “ to user

Get date from user

**Display Headings**

Display “Date: “, date to user

Display “Time”, “Air Temp”, “Wind Speed”, “Wind Direction”, “Humidity”, “Bar Pressure” to user

**Process Each Weather Entry**

Do the following for each entry in the file

Get Weather Information

Convert Time

Display Weather Summary

Update Totals

**Get Weather Information**

Get hours, minutes, temp, windSpeed, windDirection, humidity, barPressure from File

**Convert Time**

When hours is greater than or equal to 12

Set hours to hours - 12

Set timeConversion to “PM”

Otherwise

Set timeConversion to “AM”

When hours is equal to 0

Set hours to 12

**Display Weather Summary**

Display hours, “:”, minutes, timeConversion, temp, windSpeed, windDirection, humidity,

barPressure to user

**Update Totals**

Set totalTemp to totalTemp + temp

Set totalWindSpeed to totalWindSpeed + windSpeed

Set totalHumidity to totalHumidity + humidity

Set totalBarPressure to totalBarPressure + barPressure

Set numEntries to numEntries + 1

**Compute Averages**

Set avgTemp to totalTemp / numEntries

Set avgWindSpeed to totalWindSpeed / numEntries

Set avgHumidity to totalHumidity / numEntries

Set avgBarPressure to totalBarPressure / numEntries

**Store Average Summary**

Store “Date: “, date to File

Store “Avg. Air Temp”, “Avg. Wind Speed”, “Avg. Humidity”, “Avg. Bar Pressure” to File

Store avgTemp, avgWindSpeed, avgHumidity, avgBarPressure to File