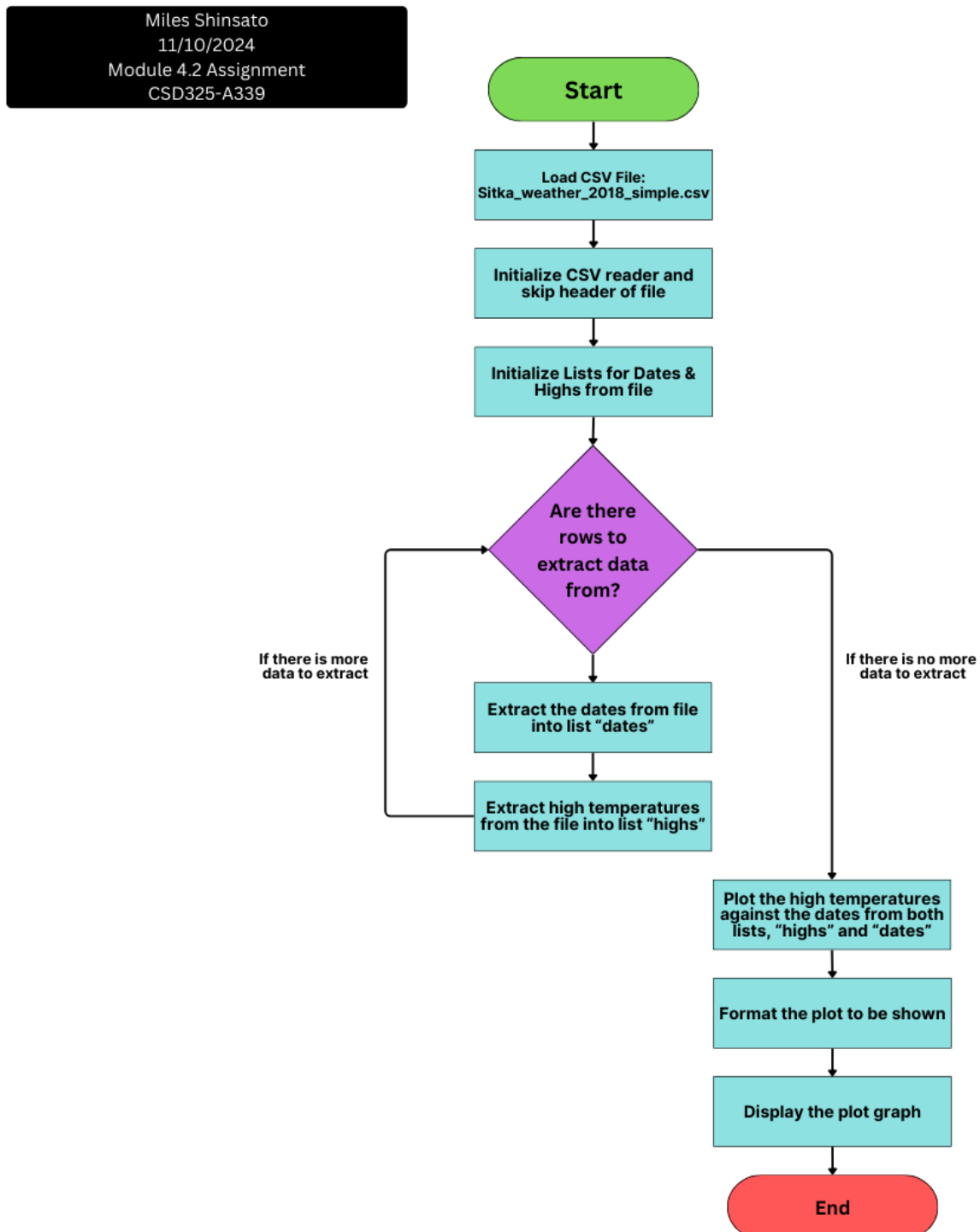Miles Shinsato

11/10/2024

Module 4.2 Assignment

CSD325-A339

Flow Chart for sitka_highs.py

Miles Shinsato
11/10/2024
Module 4.2 Assignment
CSD325-A339

Start

Load CSV File:
Sitka_weather_2018_simple.csv

Initialize CSV reader and
skip header of file

Initialize Lists for Dates &
Highs from file

Are there rows to extract data from?

If there is more
data to extract

If there is no more
data to extract

Extract the dates from file
into list "dates"

Extract high temperatures
from the file into list "highs"

Plot the high temperatures
against the dates from both
lists, "highs" and "dates"

Format the plot to be shown

Display the plot graph

End

Flow Chart for sitka_high_low.py

Miles Shinsato
11/10/2024
Module 4.2 Assignment
CSD325-A339

Start

Load CSV File:
Sitka_weather_2018_simple.csv

Initialize CSV reader and
skip header of file

Initialize Lists for Low
temps, High temps, and
Dates from file

Are there rows to extract data from?

If there is more
data to extract

If there is no more
data to extract

Extract the dates from file
into list "dates"

Extract high temperatures
from the file into list "highs"

Extract low temperatures
from the file into list "lows"

Print welcome message and
brief description of the
program to the user

Display Menu to user:
1 = View High temperatures
2 = View Low temperatures
3 = Exit the program

Get User Choice (1, 2, or 3)

User picks option 1
"View High Temperatures"

User picks option 2
"View Low Temperatures"

User enters an invalid option

Plot the high temperatures
against the dates from both
lists, "highs" and "dates"

Plot the high temperatures
against the dates from both
lists, "lows" and "dates"

Display an error message to
the user for invalid input.

Format the plot to be shown
with red for High temps

Format the plot to be shown
with blue for Low temps

Display the plot graph

User picks option 3
"Exit the program"

Display a thank you and
goodbye message

End