# Flow Chart Pre Change to Code

# Change in Code – Additional Menu Setting

#4.2 Assignment Angela Vargas CSD325

import csv

from datetime import datetime

import matplotlib.pyplot as plt

import sys

def load\_weather\_data(filename):

"""Load dates, highs, and lows from a CSV file."""

dates, highs, lows = [], [], []

with open(filename) as f:

reader = csv.reader(f)

header\_row = next(reader)

for row in reader:

try:

current\_date = datetime.strptime(row[2], '%Y-%m-%d')

high = int(row[5])

low = int(row[6])

except ValueError:

continue

dates.append(current\_date)

highs.append(high)

lows.append(low)

return dates, highs, lows

def plot\_temps(dates, temps, title, color):

"""Plot the temperatures."""

fig, ax = plt.subplots()

ax.plot(dates, temps, c=color)

plt.title(title, fontsize=24)

plt.xlabel('', fontsize=16)

fig.autofmt\_xdate()

plt.ylabel("Temperature (F)", fontsize=16)

plt.tick\_params(axis='both', which='major', labelsize=16)

plt.show()

def main():

filename = 'sitka\_weather\_2018\_simple.csv'

dates, highs, lows = load\_weather\_data(filename)

while True:

print("\nMenu:")

print("1. View High Temperatures")

print("2. View Low Temperatures")

print("3. Exit")

choice = input("Enter your choice (1-3): ")

if choice == '1':

plot\_temps(dates, highs, "Daily High Temperatures - 2018", 'red')

elif choice == '2':

plot\_temps(dates, lows, "Daily Low Temperatures - 2018", 'blue')

elif choice == '3':

print("Exiting the program. Stay cool!")

sys.exit()

else:

print("Invalid input. Please enter 1, 2, or 3.")

if \_\_name\_\_ == "\_\_main\_\_":

main()

# Flow Chart Post Change in Code

