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# === NJ_temp.ipynb ===

#%%
%matplotlib notebook
# the line below is the expansion of %matplotlib notebook
# when run/edit in visual code studio
#get_ipython().run_line_magic('matplotlib', 'notebook')


# Dependencies
import numpy as np
import matplotlib.pyplot as plt

#%%
# Set x-axis to numerical value for month:
#    numpy.range(start, stop-before, step/increment)
x_axis_data = np.arange(1,13,1)
x_axis_data

#%%
# Average weather temperature per month in Fahrenheit:
#   39, 42, 51, 62, 72, 82, 86, 84, 77, 65, 55, 44

points_F = [39, 42, 51, 62, 72, 82, 86, 84, 77, 65, 55, 44]

#%%
# Plot the line
plt.plot(x_axis_data, points_F)
plt.show()

#%%
# Convert to Celsius C = (F-32) * 0.56
points_C = [(x-32) * 0.56 for x in points_F]
points_C

#%%
# Plot using Celsius
plt.plot(x_axis_data, points_C)
plt.show()

#%%
# Plot both on the same chart
plt.plot(x_axis_data, points_F)
plt.plot(x_axis_data, points_C)
plt.show()

#%%
```