cis122 Project 2

Work with static lists and "iteration" - working through the values in a list, for one.

Name your notebook **Project2**.
20 points total

When you finish, **save** your notebook (click the "diskette" save icon on the far left),
test your project; make sure each part works correctly,
then go into **Canvas**, **Assignments**, **Project 2**, and **Upload** your **project2.ipynb** file to Canvas.
Click **Submit**.

Part a) Create a variable, print it, update the variable, print updated value
4 points
Create a variable to hold the coldest temperature, 28 degrees.
Print the variable and some short label explaining what the number is.

Update the variable to 16 degrees, then print the new value along with a short label.

Part b) Create a variable, print it, update the variable, print updated value
4 points
Create a variable to hold the name of the worst film you saw in 2016. (Or the name of the worst TV show you saw in 2016).
Print the variable and some short label explaining what the variable is about.

Update the variable to identify the worst film (or TV show) you have ever heard about, then print the new value along with a short label telling what it is about.

Part c) Create a static list of 5 days' coldest temperatures.

> **Iterate: Print each day's coldest temperature on a seperate line using a for loop.**

6 points

The last 5 days coldest temperatures are:
    22 degrees, 27 degrees, 30 degrees, 24 degrees, 19 degrees

Create a list (give it a meaningful name) with those coldest temperatures.

Iterate: Use a for loop to print each temperature in your list on a separate line with a
        blank line after each temperature (for easy reading).

Part d) Use matplotlib to plot a bar chart of those coldest temperatures.
6 points

The last 5 days coldest temperatures are:
    22 degrees, 27 degrees, 34 degrees, 24 degrees, 19 degrees

Create a list (give it a meaningful name) with those coldest temperatures.
For the x axis of the bar chart, create a list **x** with values 1, 2, 3, 4, 5.

See the Week 2 demo for an example of a similar bar chart.

Challenge
2 points

Create a static list showing the **10 worst films** ever produced, or ever produced in the the years 2000 - now. These could be from some source online, or from your own personal judgment of films.

Example: a film that shows up on many "worst ever" lists is the "Plan 9 From Outer Space" – so badly done, it may be somewhat entertaining.

Iterate through that list, listing each film on a separate line.

Use a for loop; do not use 10 print statements.

GTF challenge Your GTF may offer a 1 or 2 point challenge.