Homework 2

Homework can be submitted via the github link which will create a repository for you with basic template of files you can edit to solve the homework. See the the table for homework submission links which will help you create a github repository in the class team.

https://piazza.com/ucr/fall2022/gen220/resources

- 1. Create a Github account using GitHub Accounts
- 2. Submit the homework by creating a repository through github class room Homework $2\,$
- 3. Write a shell script called count_fires.sh which does all of the following.
 - Download a comma delimited datasets from https://data.cnra.ca.gov/which are listing of fires in several decades larger than 5000+. search for "Recent Large Fire Perimiters" in the search box. Click on the dataset it should take you to this page. Download the CSV file. (hint use curl).
 - Print out the range of years that occur in this file (hint cut out the column you want, sort and get either the smallest or largest number)
 - you'll notice there are 2 weird numbers in there "48088" and "6901" - can you tell why? You will need to go into the file and correct something (this is reminder that data are not always clean!) to avoid this problem.
 - Print out the number of fires in the database (hint use wc, remove the header or subtract out the rows)
 - Print out the number of fires that occur each year (hint use cut, sort and uniq -c)
 - Print out the name and year of largest fire (hint use sort) use the GIS ACRES column name is in the column FIRE NAME
 - Print out the total acreage burned in each year.
 - hint you can simply the file by using cut cut -d, -f2,13 ... to get the columns you need and awk to accumulate awk -F',' '{sum+=\$2;} END{print sum;}' can you filter out just the rows for a given year and add up the numbers for it?