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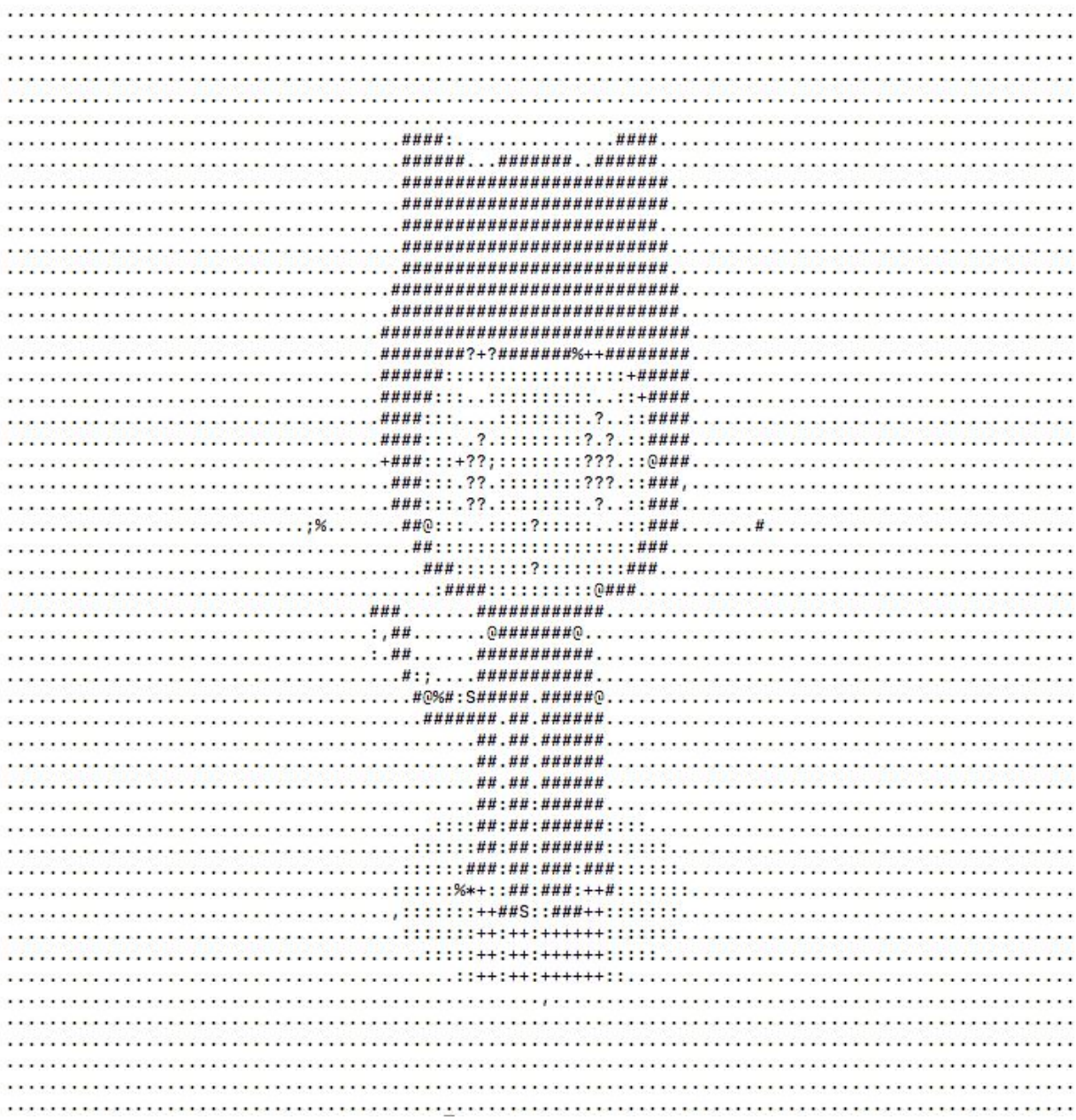
Problem Set 2

1. The first command cd /usrs/INFO3401/../homework/./problem1 would change the current directory into /usrs/INFO3401/../homework/./problem1. PWD would print the working directory which would be /usrs/INFO3401/../homework/./problem1
2. I would first cd datasets/activedata to make sure that I am in the active directory. Then I would use the command ls -l to list all of the files in the directory and see the permissions. If I see that the file I was trying to parse doesn't share the same permissions, then I would use "sudo" plus the before the command I was using to parse in order to override the permissions.
3. "Cd ~" would change the directory into the root directory
    a. mkdir ./problem_set_1 would create an empty directory called "problem_set_1"
    b. "Touch submission.txt" would create a new text file called submission.txt but wouldn't print anything out.
    c. "Cd .." would change the directory back to the root since that is the parent directory
    d. "Pwd" would print the working directory which would be any directory in the root and included the problem_set_1 directory.
4. I would first "cd home_directory" to get into the home directory
    a. Then I would "cp config.text ~" to copy the file to the root directory.
    b. I would then "cd .." to go back to the root directory and "mkdir preferences" in order to go back to the root directory and then create a new directory called preferences
    c. From there I would "cd home_directory/preferences" since I have to copy a file from a matching directory in the home directory. From there I would "cp config.txt ~/preferences" since we are copying the file from the home to the root preferences directory
    d. I would then "cd .." back to the root directory and "cd preferences" and "head config.txt" would give the first ten lines of the file. From there I would "cd home_dire/preferences" and then do the same thing of "head config.txt" to give the first 10 lines and scroll up and down to compare. I would repeat the same process with "tail config.txt" to see the last ten lines.
5. For moving files, the command "mv ~/Documents/datafile.csv <current_directory>" was used to move the file instead of "cp ~/Documents/datafile.csv <current_directory>". In order to undo this, I would "cp datafile.csv ~/Documents" so that way the file is in both locations as planned.

6. 

7. To install the Delorean package, I used “pip install Delorean”

```
>>> from delorean import Delorean
>>> EST = "US/Eastern"
>>> d = Delorean(timezone=EST)
>>> print(d)
Delorean(datetime=datetime.datetime(2020, 2, 11, 21, 49, 51, 784172), timezone='US/Eastern')
>>>
```

a.

    b. The function returns the current date time in the Eastern Time zone
8. In order to scrape I used the command “wget” to get the file
9. In order to get all of the rows with “Total” I used the command grep “Total” filename to print all of the rows and grep -c “Total” filename to get the count which was 33
10. Similar to the last problem, I used the “grep “Total” filename >> distilledExpenditure.csv” to print the lines into the other file.