

The first thing that I did was create a directory to store the assignments using the command line.

```
[Bujars-MacBook-Air:coop_ccny BujarSefa$ ls -l
total 8
-rw-r--r--  1 BujarSefa  staff   219 Jan 26 20:17 README.md
[Bujars-MacBook-Air:coop_ccny BujarSefa$ mkdir coop_asmt1
[Bujars-MacBook-Air:coop_ccny BujarSefa$ ls -l
total 8
-rw-r--r--  1 BujarSefa  staff   219 Jan 26 20:17 README.md
drwxr-xr-x  2 BujarSefa  staff    64 Jan 26 20:23 coop_asmt1
Bujars-MacBook-Air:coop_ccny BujarSefa$
```

Next, I made 20 files using the touch command. For simplicity, each 4's of text has the same content. (Example, files 1, 5, 9, 13, 17 are all empty files).

```
touch file1.txt
touch file2.txt
touch file3.txt
touch file4.txt
touch file5.txt
touch file6.txt
touch file7.txt
touch file8.txt
touch file9.txt
touch file10.txt
touch file11.txt
touch file12.txt
touch file13.txt
touch file14.txt
touch file15.txt
touch file16.txt
touch file17.txt
touch file18.txt
touch file19.txt
touch file20.txt
```

As you can see here, all of the files are in the folder (as I listed them).

```
[Bujars-MacBook-Air:coop_asmt1 BujarSefa$ ls -l
total 0
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file1.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file10.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file11.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file12.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file13.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file14.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file15.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file16.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file17.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file18.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file19.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file2.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:25 file20.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file3.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file4.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file5.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file6.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file7.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file8.txt
-rw-r--r--  1 BujarSefa  staff   0 Jan 26 20:24 file9.txt
Bujars-MacBook-Air:coop_asmt1 BujarSefa$
```

After filling the files with the appropriate content, I then created a script file to perform the necessary actions of

- a) remove all empty files;
- b) less than 10: prefix the name by short_;
- c) between 10 and 20 (inclusive): prefix the name by medium_;
- d) more than 20: prefix the name by long_;

Here is the script file:

```

for file in `ls *.txt`
do
    val=`wc -l <$file` #get the line count, and dont save file name into variable
    #echo "no space $val is a num"
    if [[ $val -lt 1 ]]
    then
        echo "removing $file"
        rm -rf $file
    elif [[ $val -lt 10 ]]
    then
        echo "$file has less that 10 lines, therefore now short"
        mv $file short_$file
    elif [[ $val -le 20 ]]
    then
        echo "$file has between 10 and 20 (inclusive) lines, therefore now medium "
        mv $file medium_$file
    else
        echo "$file has more than 20 lines, therefore now long "
        mv $file long_$file
    fi #this took me forever because i wasn't closing the if statement
done

```

Note, the comments and echos state what exactly is occurring in each spot (-lt means less than -le means less than or equal too. The <\$file means perform a line count, but don't return the file name with it. This is so I can compare the integer value).

/*Also, note that the script file chmod must be changed to command: chmod 700 filechanges.sh*/

This is me running the script:

```

Bujars-MacBook-Air:coop_asmt1 BujarSefa$ vi filechanges.sh
Bujars-MacBook-Air:coop_asmt1 BujarSefa$ ./filechanges.sh
removing file1.txt
removing file13.txt
removing file17.txt
removing file5.txt
removing file9.txt
long_assignment_description.txt has more than 20 lines, therefore now long
long_file12.txt has more than 20 lines, therefore now long
long_file16.txt has more than 20 lines, therefore now long
long_file20.txt has more than 20 lines, therefore now long
long_file4.txt has more than 20 lines, therefore now long
long_file8.txt has more than 20 lines, therefore now long
medium_file11.txt has between 10 and 20 (inclusive) lines, therefore now medium
medium_file15.txt has between 10 and 20 (inclusive) lines, therefore now medium
medium_file19.txt has between 10 and 20 (inclusive) lines, therefore now medium
medium_file3.txt has between 10 and 20 (inclusive) lines, therefore now medium
medium_file7.txt has between 10 and 20 (inclusive) lines, therefore now medium
short_file10.txt has less that 10 lines, therefore now short
short_file14.txt has less that 10 lines, therefore now short
short_file18.txt has less that 10 lines, therefore now short
short_file2.txt has less that 10 lines, therefore now short
short_file6.txt has less that 10 lines, therefore now short

```

Now, after the script was run:

```

Bujars-MacBook-Air:coop_asmt1 BujarSefa$ ls -l
total 152
-rwx----- 1 BujarSefa  staff  286 Jan 31 21:45 a.sh
-rwx----- 1 BujarSefa  staff  101 Jan 31 21:51 ch.sh
-rwx----- 1 BujarSefa  staff  709 Jan 31 22:55 filechanges.sh
-rw-r--r-- 1 BujarSefa  staff  940 Jan 31 21:53      long_assignment_description.txt
-rw-r--r-- 1 BujarSefa  staff  170 Jan 31 21:53      long_file12.txt
-rw-r--r-- 1 BujarSefa  staff  170 Jan 31 21:53      long_file16.txt
-rw-r--r-- 1 BujarSefa  staff  170 Jan 31 21:53      long_file20.txt
-rw-r--r-- 1 BujarSefa  staff  170 Jan 31 21:53      long_file4.txt
-rw-r--r-- 1 BujarSefa  staff  170 Jan 31 21:53      long_file8.txt
-rw-r--r-- 1 BujarSefa  staff   68 Jan 31 21:53      medium_file11.txt
-rw-r--r-- 1 BujarSefa  staff   68 Jan 31 21:53      medium_file15.txt
-rw-r--r-- 1 BujarSefa  staff   68 Jan 31 21:53      medium_file19.txt
-rw-r--r-- 1 BujarSefa  staff   68 Jan 31 21:53      medium_file3.txt
-rw-r--r-- 1 BujarSefa  staff   68 Jan 31 21:53      medium_file7.txt
-rw-r--r-- 1 BujarSefa  staff   21 Jan 31 21:53      short_file10.txt
-rw-r--r-- 1 BujarSefa  staff   21 Jan 31 21:53      short_file14.txt
-rw-r--r-- 1 BujarSefa  staff   21 Jan 31 21:53      short_file18.txt
-rw-r--r-- 1 BujarSefa  staff   21 Jan 31 21:53      short_file2.txt
-rw-r--r-- 1 BujarSefa  staff   21 Jan 31 21:53      short_file6.txt

```

As we can see, everything is complete!