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Assignment02:

Write shell script for pattern matching using awk, sed utilities, tar , cpio.

awk

```
awk '{ printf }' fie1.txt
echo -e "\n"
awk '{ print $1, $3 }' file1.txt
echo -e "\n"
awk '{ sum += $3 } END { print sum }' file1.txt
echo -e "\n"
awk '{ sum += $3 } END { print sum / NR }' file1.txt
echo -e "\n"
awk '{ print substr($1, 2, 3) }' file1.txt
echo -e "\n"
awk '{print $NF}' file1.txt
echo -e "\n"
awk '{ if($3 > 15000) { print "senior" } else { print "junior" } }'
file1.txt
echo -e "\n"
awk 'function square(x) { return x*x } { print square($4) }' file1.txt
echo -e "\n"
```

cpio

```
find file1.txt file2.txt newfile | cpio -o > archive.cpio
echo -e "\n"
cpio -i < archive.cpio
echo -e "\n"
cpio -t < archive.cpio
echo -e "\n"
find file1.txt file2.txt newfile | cpio -o -H odc > archive.cpio
echo -e "\n"
cpio -o -F archive_file1.cpio < file1.txt
echo -e "\n"
# Create a CPIO archive with verbose output
find file1.txt file2.txt newfile | cpio -vo > archive.cpio
echo -e "\n"
cpio -i -d < archive.cpio
echo -e "\n"
cpio -i -m < archive.cpio
echo -e "\n"
```

sed

```
#!/bin/bash
sed 's/s01/01/' file1.txt
echo -e "\n"
cat file1.txt
echo -e "\n"
sed 's/25/21/g' file1.txt
echo -e "\n"
sed '2d' file1.txt
echo -e "\n"
sed '$d' file1.txt
echo -e "\n"
sed '1,4d' file1.txt
echo -e "\n"
sed '4,$d' file1.txt
echo -e "\n"
cat file1.txt
echo -e "\n"
sed '/22/d' file1.txt
echo -e "\n"
```

tar

```
tar -cvf archive.tar file1.txt file2.txt
echo -e "\n"
tar -xvf archive.tar
echo -e "\n"
tar -cvf archive.tar file1.txt file2.txt
echo -e "\n"
tar -tvf archive.tar
echo -e "\n"
tar -rvf archive.tar newfile
echo -e "\n"
```