

NAME : SAI CHARITHA

SEC : A

ROLL NO : 422128

AWK COMMAND

Awk.sh file

```
awk '{print}' file1.txt
```

```
echo
```

```
awk '{print $2,$4}' file1.txt
```

```
echo
```

```
awk '{sum+=$3} END {print sum}' file1.txt
```

```
echo
```

```
awk '{sum+=$3} END {print sum/NR}' file1.txt
```

```
echo
```

```
awk '{print $NF}' file1.txt
```

```
echo
```

```
awk '{print substr($2 , 1 , 3)}' file1.txt
```

```
echo
```

```
awk '{if ($NF > 25) {print "senior"} else {print "junior"}}' file1.txt
```

```
echo
```

```
awk 'function sq(x) { return x*x} {print sq($NF)}' file1.txt
```

awk_output file

S01 EMP01 15000 24

S02 EMP02 11000 22

S03 EMP03 18000 29

S04 EMP04 16000 25

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S10 EMP10 16000 27

EMP01 24

EMP02 22

EMP03 29

EMP04 25

EMP05 21

EMP06 26

EMP07 28

EMP08 29

EMP09 23

EMP10 27

149000

14900

24

22

29

25

21

26

28

29

23

27

EMP

EMP

EMP

EMP

EMP

EMP

EMP

EMP

EMP

EMP

junior

junior

senior

junior

junior

senior

senior

senior

junior

senior

576

484

841

625

441

676

784

841

529

729

SED COMMAND

Sed.sh file

```
sed 's/01/01/' file1.txt  
  
echo  
  
sed 's/25/21/g' file1.txt  
  
echo  
  
sed '2d' file1.txt  
  
echo  
  
sed '$d' file1.txt  
  
echo  
  
sed '1,4d' file1.txt  
  
echo  
  
sed '/22/d' file1.txt
```

sed_output file

S01 EMP01 15000 24

S02 EMP02 11000 22

S03 EMP03 18000 29

S04 EMP04 16000 25

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S10 EMP10 16000 27

S01 EMP01 15000 24

S02 EMP02 11000 22

S03 EMP03 18000 29

S04 EMP04 16000 21

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S10 EMP10 16000 27

S01 EMP01 15000 24

S03 EMP03 18000 29

S04 EMP04 16000 25

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S10 EMP10 16000 27

S01 EMP01 15000 24

S02 EMP02 11000 22

S03 EMP03 18000 29

S04 EMP04 16000 25

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S10 EMP10 16000 27

S01 EMP01 15000 24

S03 EMP03 18000 29

S04 EMP04 16000 25

S05 EMP05 19000 21

S06 EMP06 13000 26

S07 EMP07 14000 28

S08 EMP08 15000 29

S09 EMP09 12000 23

S10 EMP10 16000 27

TAR COMMAND

Tar.sh file

```
echo''  
tar cvf file.tar *.txt  
echo  
echo 'extract files through archives:'  
tar xvf file.tar  
echo  
echo''  
tar cvzf file.tar.gz *.txt  
echo  
echo''  
tar xvzf file.tar.gz
```

```
echo
echo''
tar cvfj file.tar.tbz all.txt
echo
echo''
tar -jxvf file.tar.tbz "all.txt"
echo
echo''
tar -czf - file.tar | wc -c
echo
echo''
tar rvf file.tar *.txt
echo
echo''
tar tf file.tar
echo
echo''
tar -tvf file.tar
echo
echo''
tar tvf file.tar all.txt
echo
echo''
tar tvf file.tar | grep "all.txt"
```

tar_output file

awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

extract files through archives:

awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

tar: all.txt: Cannot stat: No such file or directory

tar: Exiting with failure status due to previous errors

tar: all.txt: Not found in archive

tar: Exiting with failure status due to previous errors

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awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

awkop.txt

cpioop.txt

file1.txt

file2.txt

sedo.txt

tarop.txt

taro.txt

-rw-rw-r-- student/student 480 2024-02-28 15:13 awkop.txt

-rw-rw-r-- student/student 44 2024-02-28 16:16 cpioop.txt

-rw-rw-r-- student/student 190 2024-02-28 14:23 file1.txt

```
-rw-rw-r-- student/student 0 2024-02-28 16:14 file2.txt
-rw-rw-r-- student/student 1012 2024-02-28 15:30 sedo.txt
-rw-rw-r-- student/student 30 2024-02-28 16:07 tarop.txt
-rw-rw-r-- student/student 40 2024-02-28 16:09 taro.txt
-rw-rw-r-- student/student 480 2024-02-28 15:13 awkop.txt
-rw-rw-r-- student/student 44 2024-02-28 16:16 cpioop.txt
-rw-rw-r-- student/student 190 2024-02-28 14:23 file1.txt
-rw-rw-r-- student/student 0 2024-02-28 16:14 file2.txt
-rw-rw-r-- student/student 1012 2024-02-28 15:30 sedo.txt
-rw-rw-r-- student/student 30 2024-02-28 16:07 tarop.txt
-rw-rw-r-- student/student 40 2024-02-28 16:09 taro.txt
```

tar: all.txt: Not found in archive

tar: Exiting with failure status due to previous errors

CPIO COMMAND

Cpio.sh file

```
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"
```

cpio_output file

1 block

cpio: file1.txt not created: newer or same age version exists

cpio: file2.txt not created: newer or same age version exists

cpio: newfile not created: newer or same age version exists

1 block

file1.txt

file2.txt

newfile

1 block

2 blocks

cpio: S01 EMP01 15000 24: Cannot stat: No such file or directory

cpio: S02 EMP02 11000 22: Cannot stat: No such file or directory

cpio: S03 EMP03 18000 29: Cannot stat: No such file or directory

cpio: S04 EMP04 16000 25: Cannot stat: No such file or directory

cpio: S05 EMP05 19000 21: Cannot stat: No such file or directory

cpio: S06 EMP06 13000 26: Cannot stat: No such file or directory

cpio: S07 EMP07 14000 28: Cannot stat: No such file or directory

cpio: S08 EMP08 15000 29: Cannot stat: No such file or directory

cpio: S09 EMP09 12000 23: Cannot stat: No such file or directory

cpio: S10 EMP10 16000 27: Cannot stat: No such file or directory

1 block

file1.txt

file2.txt

newfile

1 block

cpio: file1.txt not created: newer or same age version exists

cpio: file2.txt not created: newer or same age version exists

cpio: newfile not created: newer or same age version exists

1 block

cpio: file1.txt not created: newer or same age version exists

cpio: file2.txt not created: newer or same age version exists

cpio: newfile not created: newer or same age version exists

1 block