Milan Variya 12302130501036

## **PRACTICAL:8**

AIM: Shell programming using filters (including grep,

egrep, fgrep)

## Source code:

```
#!/bin/bash
# Check if files are provided as arguments
if [ $# -eq 0 ]; then
echo "Please provide at least one file to process."
exit 1
fi
echo "1. Using grep to find lines with 'ram' or 'sam':"
# Using extended regex with grep -E or egrep
grep -E "(r|s)am" "$@"
echo " ....."
echo "2. Using egrep to find lines with 'ram' or 'sam':"
egrep "(r|s)am" "$@"
echo " -----"
echo "3. Using fgrep to find literal 'hello world':"
fgrep "hello world" "$@"
echo "....."
```

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```
echo "4. Chaining filters to extract and sort numbers:"

# Match lines that contain only digits, then sort them numerically

egrep "^[0-9]+$" "$@" | sort -n

echo "......"
```

## Output:

```
ubuntu@ubuntu:-/Desktop$ echo -e "ram is here\nsam I am\ntam tam\nhello worl\n123\n45\nhello there" >greping.txt
ubuntu@ubuntu:-/Desktop$ echo -e "goodbye\nhello world again\nram agai" > another.txt
ubuntu@ubuntu:-/Desktop$ ./filter_script.sh greping.txt another.txt
1. Using grep to find lines with 'ram' or 'sam':
2. Using egrep to find lines with 'ram' or 'sam':
greping.txt:ram is here
greping.txt:sam I am
another.txt:ram agai
3. Using fgrep to find literal 'hello world':
another.txt:hello world again
4. Chaining filters to extract and sort numbers:
45
123
```