

Assignment – 4

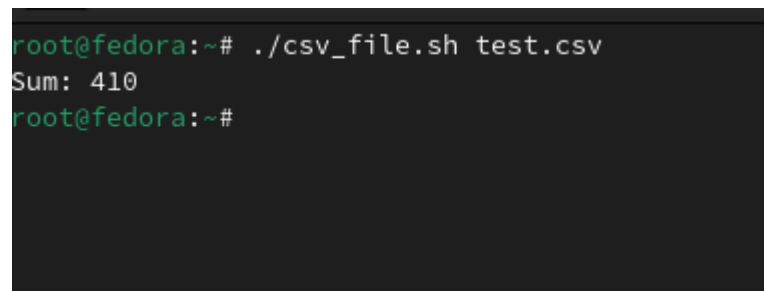
1.Sum a Specific CSV Column

```
#!/bin/bash

FILE="$1"
COL="$2"

if [ ! -f "$FILE" ]; then
    echo "File not found!"
    exit 1
fi

awk -F',' -v col="$COL" '{sum += $col} END {print "Sum:", sum}' "$FILE"
```



A terminal window screenshot showing the execution of the script. The prompt is root@fedora:~#. The command ./csv_file.sh test.csv is entered. The output is Sum: 410. The prompt returns to root@fedora:~#.

```
root@fedora:~# ./csv_file.sh test.csv
Sum: 410
root@fedora:~#
```

2. Extract Frequent IPs from Log File

```
#!/bin/bash

LOGFILE="$1"
THRESHOLD="$2"

if [ ! -f "$LOGFILE" ]; then
    echo "Log file not found!"
    exit 1
fi
```

```
awk '{print $1}' "$LOGFILE" | sort | uniq -c | awk -v t="$THRESHOLD" '$1 > t {print $2, "made", $1, "requests"}'
```

```
root@fedora:~# ./logfile.sh log_file.txt
10.0.0.5 made 1 requests
172.16.0.25 made 1 requests
192.168.1.10 made 2 requests
203.0.113.1 made 1 requests
root@fedora:~#
```

3. Words in a sentence

```
#!/bin/bash
```

```
# Read sentence from user
```

```
echo "Enter a sentence:"
```

```
read sentence
```

```
# Process words and count
```

```
echo "$sentence" | tr '[:space:]' '\n' | tr -d '[:punct:]' | grep -v '^$' | sort | uniq -c
```

```
root@fedora:~# ./Word_count.sh
Enter a sentence:
Hi today is Thursday
    1 Hi
    1 is
    1 Thursday
    1 today
root@fedora:~#
```