



Scripting Languages: Workshop 5 Possible Solutions

Task 1

```
1 #!/bin/bash
2
3 grep -c '^GET' sampledata.txt
4
5 exit 0
```

Task 2

```
1 #!/bin/bash
2
3 grep '573[[:cntrl:]]*$' sampledata.txt
4
5 exit 0
```

Task 3

```
#!/bin/bash
grep -E '(jsp)|(py)|(asp)|(aspx)' sampledata.txt
exit 0
```

Task 4

```
1 #!/bin/bash
2
3 grep -c '404.*506' sampledata.txt
4
5 exit 0
```

Task 5

```
1 #!/bin/bash
2
3 grep 'http.*5\.162.*$' < sampledata.txt > 162attempts.txt
4 # grep 'http://192\.168\.5\.162/$' < sampledata.txt > 162attempts.txt
5 # grep 'http.*5\.162.*$' < sampledata.txt > 162attempts.txt
6
7 exit 0
```

Task 6

```
1 #!/bin/bash
2
3 grep '404.*506$' < sampledata.txt > 404messages.txt
4
5 exit 0
```

Task 7

```
1 #!/bin/bash
2
3 grep -c -v -E '50[0-9]{1}' sampledata.txt
4
5 exit 0
```

Task 8

Task 9

```
# Whrite a script that calculates the total sales for those products in salesdata.csv with a product code that ends in XS

# Works in conjunction with file salesdata.csv that should be in same working directory as this script

# Place file name into a variable

# Create a variable for the total and initialise it

# file="salesdata.csv" ttl=0.00

# Grab the contents of the file (cat)

# Remove the header so it is not processed (tail)

# Ger id of all lines that don't have XS in them (grep)

# Place whar remains into a temp file for the next stage of processing ( > temp )

cat $file | tail -n +2 | grep ".*XS.*" > temp

# Sive the for loop the lines of data to be acted upon

for item in $( cat temp ); do

# Get the length of the current product code in $item

len=$(expr length $( echo $item | cut -f1 -d , ) )

# Test if the second last and last characters of the current product code are XS

if [[ $( echo $item | cut -f1 -d , | cut -c $(($len-1))-$(($len)) ) == "XS" ]]; then

# If true (last two characters of product code are XS), grab corresponding sales amount and update total ($ttl)

# Itl=$( echo $ttl $( echo $item | cut -f2 -d , | tr -d '$') | awk '{ printf "%.2f", $1+$2 }' )

# Output the total to the terminal

echo "Total sales for product codes ending in XS is \$$ttl"

exit 0
```