



Scripting Languages: Workshop 6 (Possible) Solutions

Task 1

- Using the pre-made script named ws6a.sh, add the code required to the function getsumlines()
 that retrieves all lines in a given file that contain monetary sums of \$10,000 or greater and writes
 these to a file named results.txt
- 2. The input file has been provided and is named attdata.txt
- 3. The function is called in the ws6a.sh script as getsumlines attdata.txt
- 4. Do **not** change any of the code in the script outside of the declared function
- 5. Your function code is working as required when you get the following output to terminal:

```
vbrown@LAPTOP-N6EFE714:~/sl/workshops/ws6$ ./ws6a.sh
The city paid a $600,000 ransom in June 2019 to recover files following a ransomware attack
One paid $75,000 to recover its encrypted files.
Ransomware downtime costs organisations more than $64,000 on average.
Ransomware is costing businesses more than $75,000,000 per year
We have no idea why they didn't just ask for $10,000 flat.
Another study noted that a quarter of businesses would be willing to pay between $20,000 and $50,000 to
```

```
#!/bin/bash

getsumlines() {

# Place your function code here

grep -E "[$]{1}[0-9]{2,3},[0-9]{3}" $1 > results.txt

}

getsumlines attdata.txt

cat results.txt

exit 0
```

Task 2

- 1. Using the pre-made script named ws6b.sh, add the code required to the function makemenu() to create a menu from which the user can choose a port number in the attdata2.csv file for further analysis (the port numbers are the first column of the attdata2.csv file)
- 2. The input file has been provided and is named attdata2.csv
- 3. The function is called in the ws6b.sh script as makemenu() \$selfile (where \$selfile is the variable that holds attdata2.csv)
- 4. Do **not** change any of the code in the script outside of the declared function
- 5. The final output of the script to the terminal will be the port number selected by the user
- 6. Your function code is working as required when you get the following output to terminal:

```
vbrown@LAPTOP-N6EFE714:~/sl/workshops/ws6$ ./ws6b.sh
What file do you wish to analyse?: attdata2.csv
[23] [6660] [1080] [53] [31337] [22] [161]
Select a port from the list above to analyse: 161
161
```

```
#!/bin/bash
     makemenu() {
         if ! [ -f portlist.txt ]; then
         touch portlist.txt
         fi
         while IFS="," read -r port protocol service ip; do
             inlist=$(grep $port portlist.txt | wc -1)
10
11
             if [[ $inlist > 0 ]]; then
12
                 continue
13
             else
14
                 echo -n "[$port] " >> portlist.txt
15
             fi
16
         done < $1
17
18
    cat portlist.txt
    echo ""
19
20
     read -p 'Select a port from the list above to analyse: ' selport
21
     echo "$selport"
22
     }
```