Scripting Languages: Workshop 4 – Possible Task Solutions

Task 1

```bash
1   #!/bin/bash
2
3   while true; do
4       read -p 'Enter a three digit code between 110 and 150 inclusive: ' usrcde
5       if [[ $usrcde -ge 110 ]] && [[ $usrcde -le 150 ]]; then
6           break
7       else
8           echo "Invalid code entered - please try again"
9       fi
10  done
11
12  echo "Code entered is valid - thankyou"
13
14  exit 0
```

Task 2

```bash
#!/bin/bash

orig_ifs=IFS
IFS=$'\n'

declare -a newfolders

while read -r fname || [ -n "$fname" ]; do
    newfolders+=($fname)
done < foldernames.txt

len=${#newfolders[*]}
echo ${newfolders[*]}

for (( i=0; i<${len}; i++ )); do
    if [[ ${#newfolders[$i]} -gt 14 ]]; then
        continue
    else
        echo "Folder ${newfolders[$i]} has been created"
    fi
done

IFS=orig_ifs
exit 0
```

Task 3

```bash
#!/bin/bash

match=0 salecnt=0 salettl=0
declare -a STAFF
cat staff-sales.csv | cut -f1 -d , | sort -u > temp
for item in $( cat temp ); do
    STAFF+=("$item")
done

while true; do
    for i in ${STAFF[@]}; do
        echo -n "[$i] "
    done
    echo -e "\n"
    read -p "Please enter a username from the list above: " stffnme

    for i in ${STAFF[@]}; do
        if [[ "$stffnme" == "$i" ]]; then
            match=1
        fi
    done

    if [[ $match -eq 1 ]]; then
        break
    else
        echo -e "No matching staff member found. Please try again.\n"
    fi

done

for item in $( cat staff-sales.csv ); do
    if [[ "$( echo $item | cut -f1 -d , )" == "$stffnme" ]]; then
        ((salecnt++))
        salettl=$(echo $salettl $( echo $item | cut -f2 -d , ) | awk '{printf "%.2f", $1+$2}')
    fi
done

echo "The staff member [$stffnme] has made [$salecnt] sales for a total of [\$$salettl]"

exit 0
```