Shell Scripting 3

Q1.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q2.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q2.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q2.sh
Enter a number:

10
12
3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 32 33 34 35 36
37 38 39 40 41 42 43 44 45
46 47 48 49 50 51 52 53 54 55
Foot@DESKTOP-M3TSUJI:/home/infobell# ./q2.sh
Enter a number:

5
5
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
root@DESKTOP-M3TSUJI:/home/infobell# |
```

Q3.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q3.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q3.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q3.sh
Enter the first number:
4.28
Enter the second number:
1.21
The sum of 4.28 and 1.21 is 5.49
root@DESKTOP-M3TSUJI:/home/infobell# |
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q4,sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q4.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q4.sh
vot@DESKTOP-M3TSUJI:/home/infobell# ./q4.sh
Usage: ./q4.sh <numl > operator> <numl>>
root@DESKTOP-M3TSUJI:/home/infobell# ui q4.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q4.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q4.sh 1.2 + 2.6
1.2 + 2.6 = 3.8
root@DESKTOP-M3TSUJI:/home/infobell#
```

Q5.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q5.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q5.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q5.sh
Usage: ./q5.sh <numl> <numl> <numl> <numl> i... <numl>
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q6.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q6.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q6.sh 639872
639872 in reverse order is 278936
root@DESKTOP-M3TSUJI:/home/infobell# |
```

Q7.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q7.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q7.sh
root@DESKTOP-M3TSUJI:/home/infobell# ls
f1 f2.txt.gz f3.txt q1.sh q2.sh q3.sh q4.sh q5.sh q6.sh q7.sh t1
root@DESKTOP-M3TSUJI:/home/infobell# f3.txt
f3.txt: command not found
root@DESKTOP-M3TSUJI:/home/infobell# unzip f2.txt

Command 'unzip' not found, but can be installed with:
apt install unzip
root@DESKTOP-M3TSUJI:/home/infobell# gzip -d f2.txt
root@DESKTOP-M3TSUJI:/home/infobell# ls
f1 f2.txt f3.txt q1.sh q2.sh q3.sh q4.sh q5.sh q6.sh q7.sh t1
root@DESKTOP-M3TSUJI:/home/infobell# cat f2.txt
Hello Infobell
root@DESKTOP-M3TSUJI:/home/infobell# ./q7.sh f2.txt
Empty lines removed from f2.txt
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q9.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q9.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q9.sh
Enter the value of n: 9
0
1
1
2
3
5
8
root@DESKTOP-M3TSUJI:/home/infobell#
```

Q10.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q10.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q10.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q10.sh
5
5
3
3
root@DESKTOP-M3TSUJI:/home/infobell# |
```

```
#!/bin/bash
# set the board size
board_size=:

# loop through each row of the board
for (( row=1; row<=board_size; row++ ))

do

# loop through each column of the board
for (( col=1; col<=board_size; col++ ))
do

# determine the value of the current square
if (( ($row + $col) % 2 == 0 ))
then
    val=0
else
    val=1
fi

# print the value of the current square
echo -n "$val "
done

# move to the next row
echo ""
done

...
:wqi</pre>
```

Q12.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q12.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q12.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q12.sh
Enter a list of numbers separated by spaces: 96 12 85 36 25 1 9 14 14 11
Enter sort order (asc/desc): asc
Sorted numbers: 1
9
11
12
14
14
25
36
85
96
```

```
req12.sh*164, 563C

reotQ0ESKTOP-H3TSUJI:/home/infobell# vi q13.sh
reotQ0ESKTOP-H3TSUJI:/home/infobell# vi q13.sh
reotQ0ESKTOP-H3TSUJI:/home/infobell#
reotQ0ESKTOP-H3TSUJI:/home/infobell#
reotQ0ESKTOP-H3TSUJI:/home/infobell#
reotQ0ESKTOP-H3TSUJI:/home/infobell#
reotQ0ESKTOP-H3TSUJI:/home/infobell#
reotQ0ESKTOP-H3TSUJI:/home/infobell# ./q13.sh
```

```
| Total Control | Total | Tota
```

Q15.

root@DESKTOP-M3TSUJI:/home/infobell# vi qis.sh
root@DESKTOP-M3TSUJI:/home/infobell# vi qis.sh
root@DESKTOP-M3TSUJI:/home/infobell# /niodel# /niodel

```
### States the old prefix: "
read old_prefix: old_
```

Q17.

Q19.

Q21.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q21.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q21.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q21.sh
Good morning! Today is Wednesday,26-April-2023.
root@DESKTOP-M3TSUJI:/home/infobell#
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q22.sh
\root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q22.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q22.sh
```

Q23.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q23.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q23.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q23.sh F3.TXT
root@DESKTOP-M3TSUJI:/home/infobell# |
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q24.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q24.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q24.sh
Hello Siddhaling
```

Q25.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q25.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q25.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q25.sh 1 2 5 9 4 s jk 1 7 5
1
2
5
9
4
s
jk
1
7
5
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q26.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q26.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q26.sh
Usage: ./q26.sh mount_point
```

Q27.

```
#!/bin/bash

if [ $# -eq 0 ]; then
    echo "Usage: $0 dir1 dir2 dir3 ..."
    exit 1

fi

for dir in "$0"; do
    if [ -d "$dir" ]; then
        echo "Contents of $dir:"
        ls -l "$dir"
        echo
    else
        echo "$dir is not a directory"
    fi
    done
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q27.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q27.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q27.sh
Usage: ./q27.sh dir1 dir2 dir3 ...
```

Q29.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q29.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q29.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q29.sh
root@DESKTOP-M
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q30.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q30.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q30.sh
Number of users with user IDs between 500 and 10000: 2
root@DESKTOP-M3TSUJI:/home/infobell#
```

Q31.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q31.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q31.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q31.sh
Directory: /usr/local/sbin
Number of executable files: 0

Directory: /usr/local/bin
Number of executable files: 0

Directory: /usr/sbin
Number of executable files: 253

Directory: /usr/sbin
Number of executable files: 823

Directory: /sbin
Number of executable files: 0

Directory: /sbin
Number of executable files: 0

Directory: /sbin
Number of executable files: 0

Directory: /usr/games
Number of executable files: 0
```

Q32.

```
#!/bin/bash

# Cet the search query from the user read -p "Enter the username or ID to search: " query

# Search for the user using getent results(getent passed "Squery")

# Check if the result is empty (user not found) if [[ -z "$result" ]; then etho "User "Squery" not found." else "squery" not found."

## Check if the search is empty (user not found) if [ -z "$result" ]; then etho "User "Squery" not found." else "squery" not fou
```

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q32.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q32.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q32.sh
Enter the username or ID to search: cdac
User 'cdac' not found.
root@DESKTOP-M3TSUJI:/home/infobell# ./q32.sh
Enter the username or ID to search: games
games:x:5:60:games:/usr/games:/usr/sbin/nologin
root@DESKTOP-M3TSUJI:/home/infobell#
```

Q34.

```
root@DESKTOP-M3TSUJI:/home/infobell# vi q34.sh
root@DESKTOP-M3TSUJI:/home/infobell# chmod +x q34.sh
root@DESKTOP-M3TSUJI:/home/infobell# ./q34.sh
Enter weight in kilograms: 58
Enter height in meters: 0.1347
Your BMI is 3204.41
```