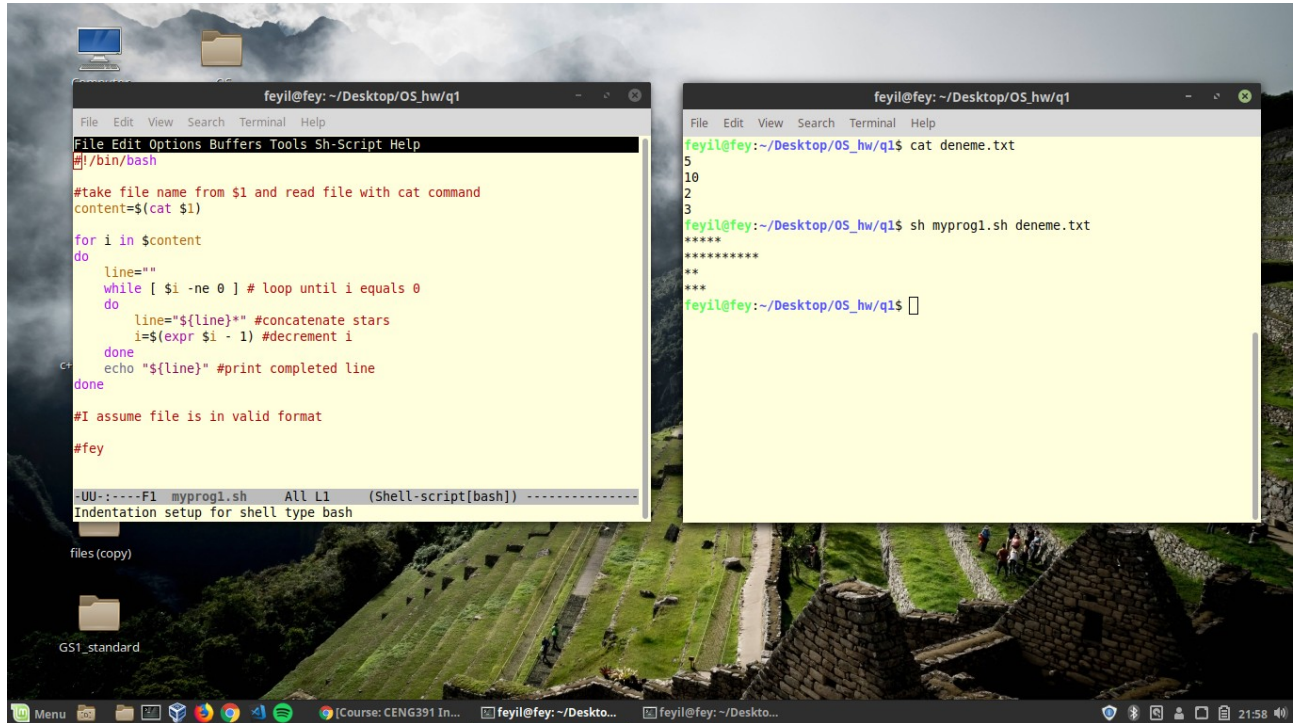


## Report of OS First Assignment

This report includes my test cases for my implementation of given questions. You can see the pictures of three test cases of “myprog1.sh”:



```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
# /bin/bash

#take file name from $1 and read file with cat command
content=$(cat $1)

for i in $content
do
    line=""
    while [ $i -ne 0 ] # loop until i equals 0
    do
        line="${line}*" #concatenate stars
        i=$((expr $i - 1)) #decrement i
    done
    echo "${line}" #print completed line
done

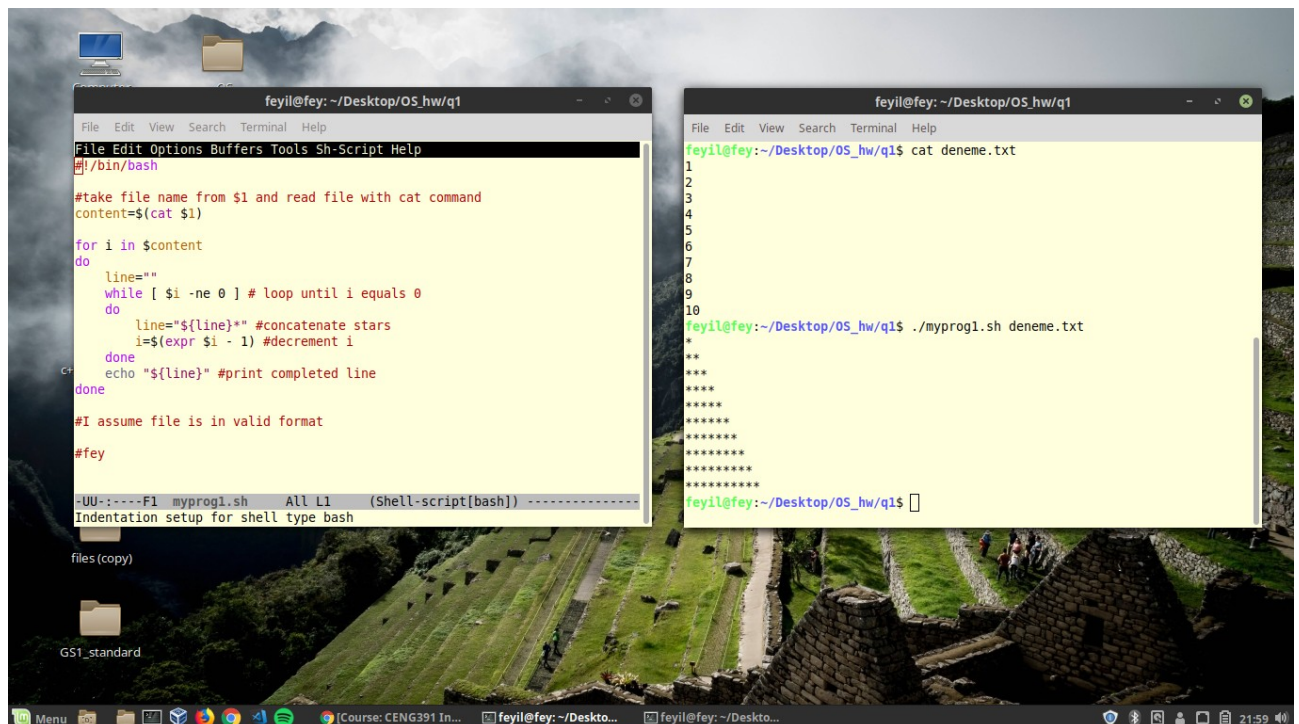
#I assume file is in valid format

#fevil

-UU-----F1 myprog1.sh All L1 (Shell-script[bash]) -----
Indentation setup for shell type bash

files (copy)
GS1_standard
```

```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
fevil@fevil:~/Desktop/OS_hw/q1$ cat deneme.txt
5
10
2
3
fevil@fevil:~/Desktop/OS_hw/q1$ sh myprog1.sh deneme.txt
*****
**
***
fevil@fevil:~/Desktop/OS_hw/q1$
```



```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
# /bin/bash

#take file name from $1 and read file with cat command
content=$(cat $1)

for i in $content
do
    line=""
    while [ $i -ne 0 ] # loop until i equals 0
    do
        line="${line}*" #concatenate stars
        i=$((expr $i - 1)) #decrement i
    done
    echo "${line}" #print completed line
done

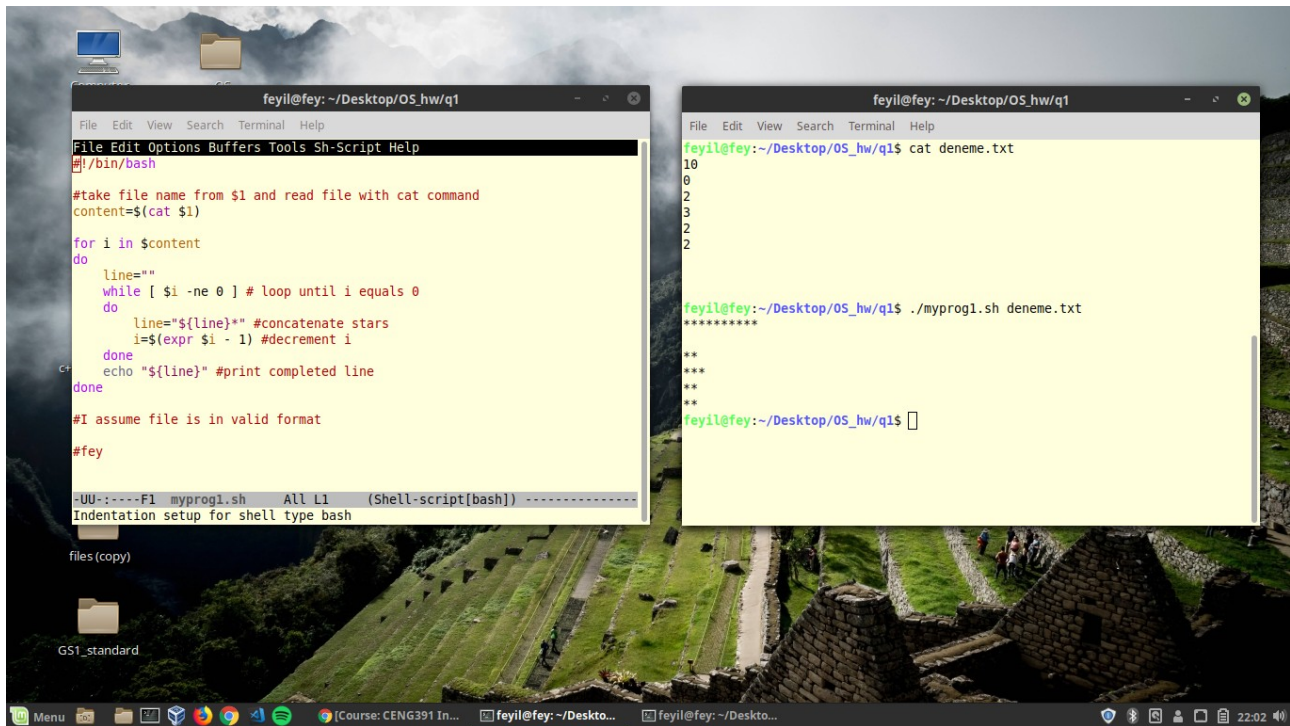
#I assume file is in valid format

#fevil

-UU-----F1 myprog1.sh All L1 (Shell-script[bash]) -----
Indentation setup for shell type bash

files (copy)
GS1_standard
```

```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
fevil@fevil:~/Desktop/OS_hw/q1$ cat deneme.txt
1
2
3
4
5
6
7
8
9
10
fevil@fevil:~/Desktop/OS_hw/q1$ ./myprog1.sh deneme.txt
**
***
*****
*****
*****
*****
*****
fevil@fevil:~/Desktop/OS_hw/q1$
```



```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
# /bin/bash

#take file name from $1 and read file with cat command
content=$(cat $1)

for i in $content
do
    line=""
    while [ $i -ne 0 ] # loop until i equals 0
    do
        line="${line}* " #concatenate stars
        i=$((i - 1)) #decrement i
    done
    echo "${line}" #print completed line
done

#I assume file is in valid format

#fevil

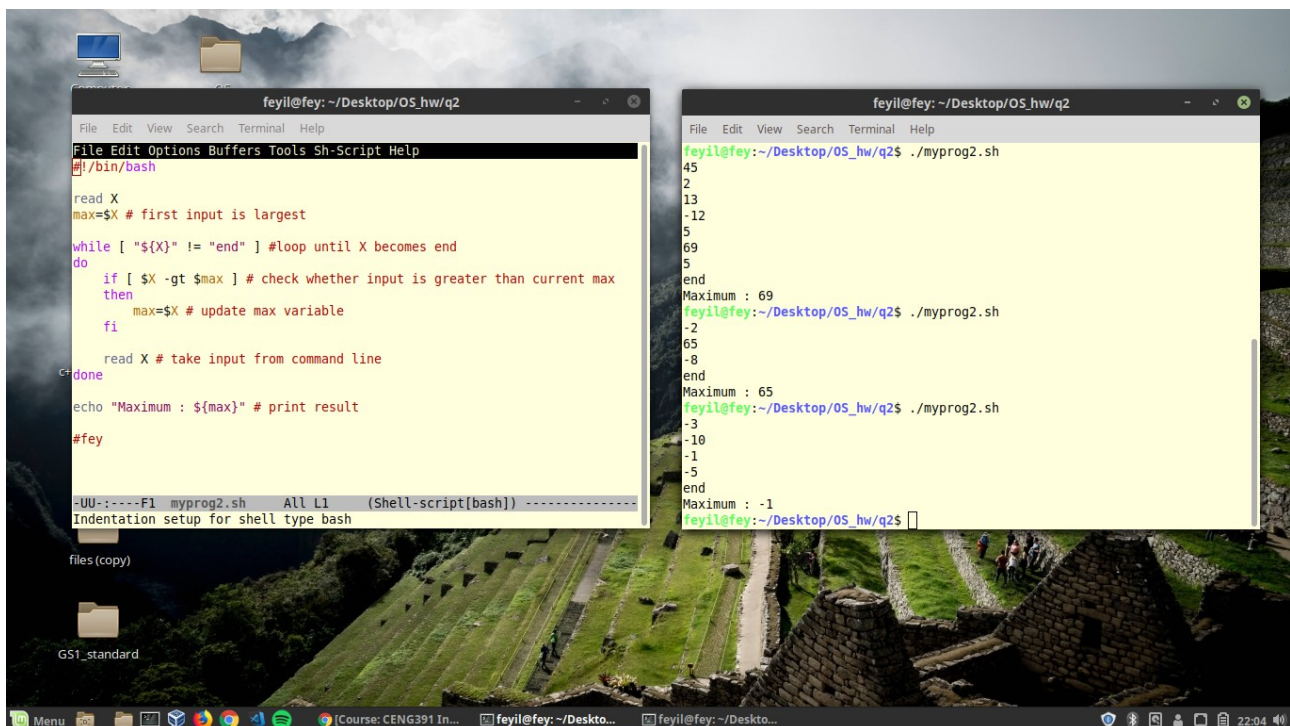
-UU-:----F1 myprog1.sh All L1 (Shell-script[bash]) -----
Indentation setup for shell type bash

files (copy)
GS1_standard
```

```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
fevil@fevil:~/Desktop/OS_hw/q1$ cat deneme.txt
10
0
2
3
2
2

fevil@fevil:~/Desktop/OS_hw/q1$ ./myprog1.sh deneme.txt
*****
**
***
**
**
fevil@fevil:~/Desktop/OS_hw/q1$
```

As you can see explanations given in code as comment blocks. All the scripts I assumed input is valid. I didn't put any input validation mechanism. For the second script "myprog2.sh" you can see one picture which includes multiple test cases:



```
fevil@fevil: ~/Desktop/OS_hw/q2
File Edit View Search Terminal Help
# /bin/bash

read X
max=$X # first input is largest

while [ "${X}" != "end" ] #loop until X becomes end
do
    if [ $X -gt $max ] # check whether input is greater than current max
    then
        max=$X # update max variable
    fi
    read X # take input from command line
done

echo "Maximum : ${max}" # print result

#fevil

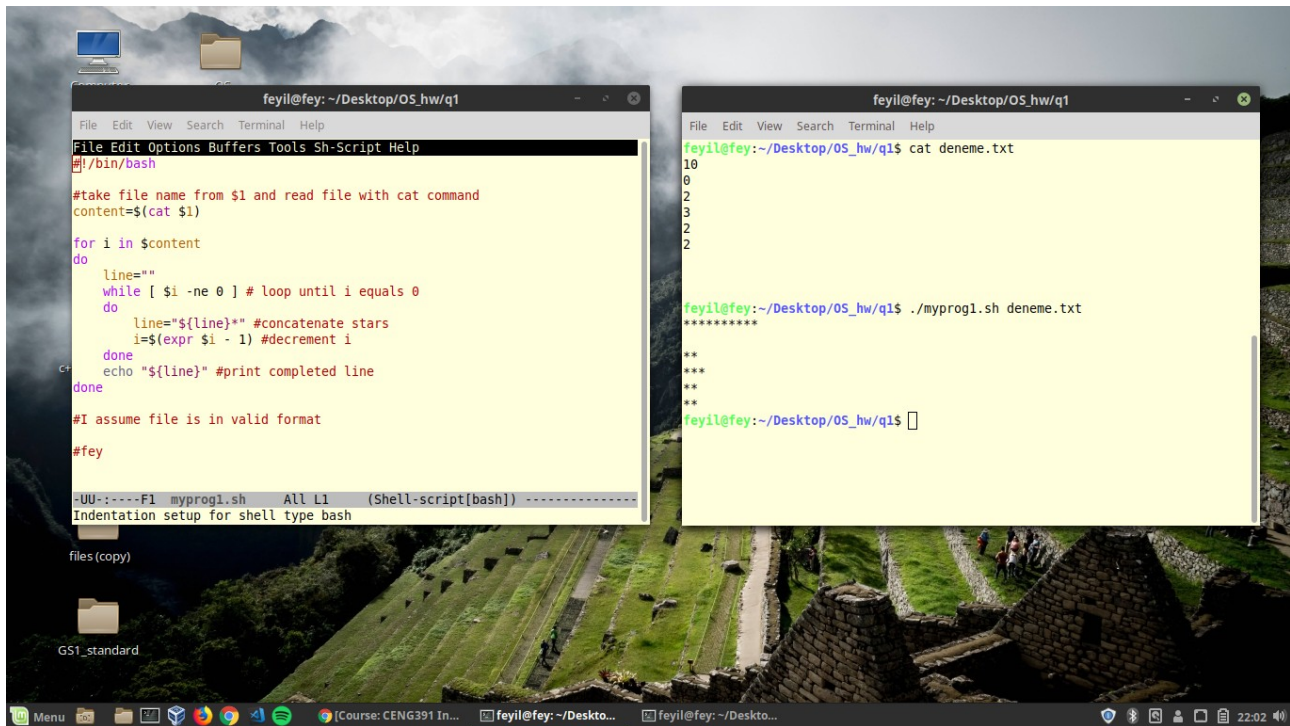
-UU-:----F1 myprog2.sh All L1 (Shell-script[bash]) -----
Indentation setup for shell type bash

files (copy)
GS1_standard
```

```
fevil@fevil:~/Desktop/OS_hw/q2$ ./myprog2.sh
45
2
13
-12
5
69
5
end
Maximum : 69
fevil@fevil:~/Desktop/OS_hw/q2$ ./myprog2.sh
-2
65
-8
end
Maximum : 65
fevil@fevil:~/Desktop/OS_hw/q2$ ./myprog2.sh
-3
-10
-1
-5
end
Maximum : -1
fevil@fevil:~/Desktop/OS_hw/q2$
```

I paid attention to the negative inputs it worked fine in such circumstances. For the last script "myprog3.sh" I added two pictures which includes my test cases:





```
fevil@fevil: ~/Desktop/OS_hw/q1
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash

#take file name from $1 and read file with cat command
content=$(cat $1)

for i in $content
do
    line=""
    while [ $i -ne 0 ] # loop until i equals 0
    do
        line="${line}*" #concatenate stars
        i=$((i - 1)) #decrement i
    done
    echo "${line}" #print completed line
done

#I assume file is in valid format

#fevil

-UU-:----F1 myprog1.sh All L1 (Shell-script[bash]) -----
Indentation setup for shell type bash

files (copy)
GS1_standard

fevil@fevil: ~/Desktop/OS_hw/q1
File Edit View Search Terminal Help
fevil@fevil:~/Desktop/OS_hw/q1$ cat deneme.txt
10
0
2
3
2
2

fevil@fevil:~/Desktop/OS_hw/q1$ ./myprog1.sh deneme.txt
*****
**
***
**
**
fevil@fevil:~/Desktop/OS_hw/q1$
```

As you can see given test cases it will work fine. I just want to point out something in third “myprog3.sh” First I thought to use “wc” command but later I searched and found “find” command which greatly simplifies the process.