CONESTOGA

Connect Life and Learning

Student Name:	Aagam Sanjay Shah
Deliverable:	In-Class Tasks Week 12
Course Name:	NTWK8141-24S-Sec3-Linux Server

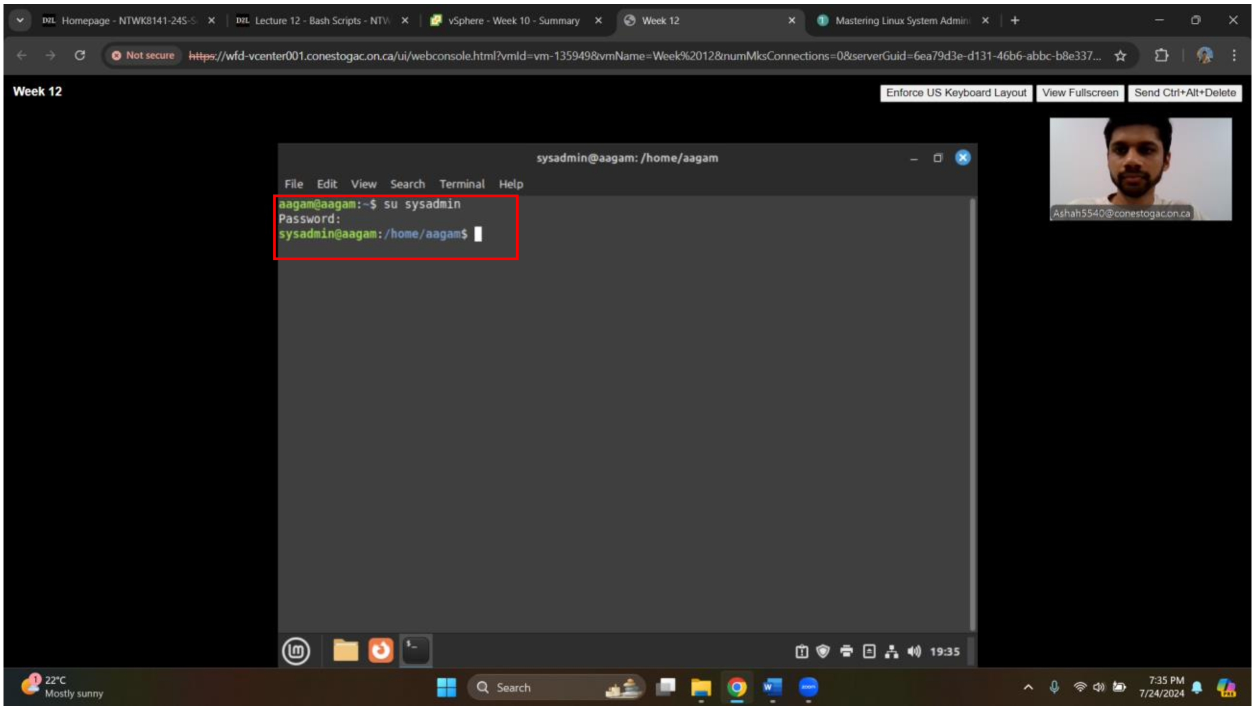
Date Assigned:	24/07/2024
Date Due:	25/07/2024
Rules:	• Individual. • Cheating is not allowed. • Plagiarism counts as cheating! • That FAILURE to submit work in the course can result in a grade of ‘F’ or ‘I’ for failure to complete the course!

In Class Task: scripts

Complete the Real World Scenario: Writing a Simple Shell Script with Variables in Ch 19

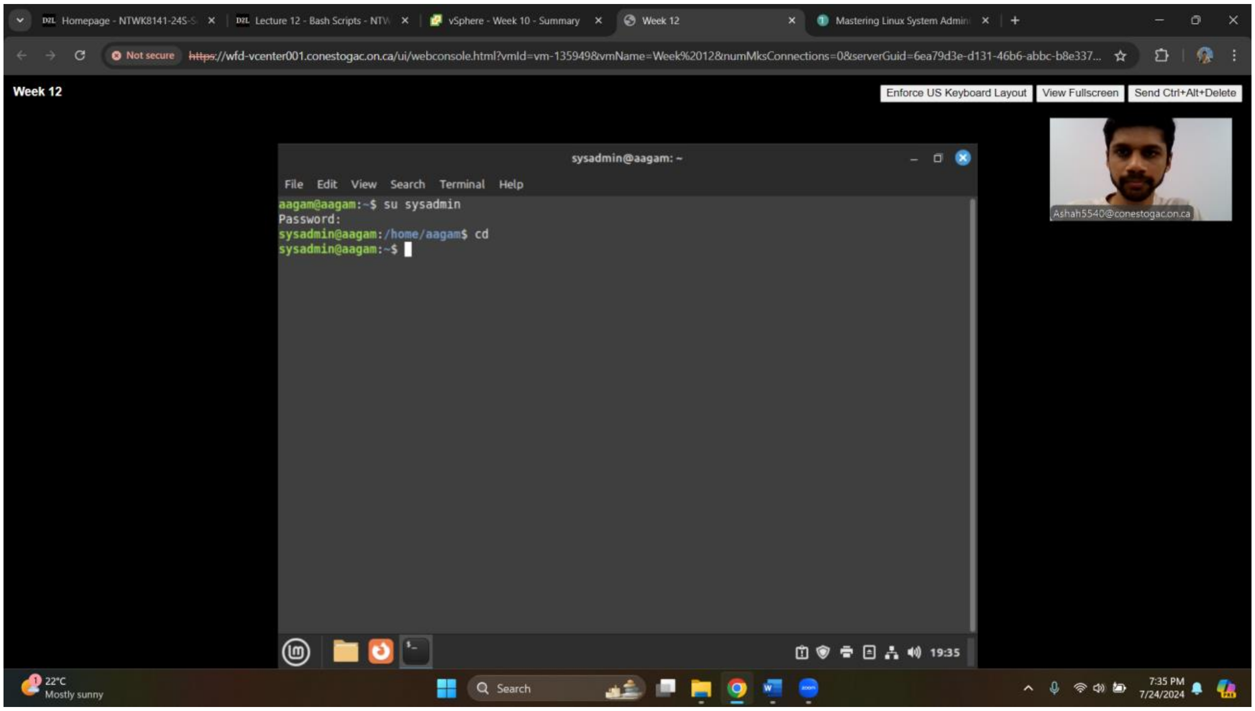
WRITING A SIMPLE SHELL SCRIPT WITH VARIABLES

1. **Log into your Linux system, using the sysadmin account and the password you created for it.**



```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ 
```

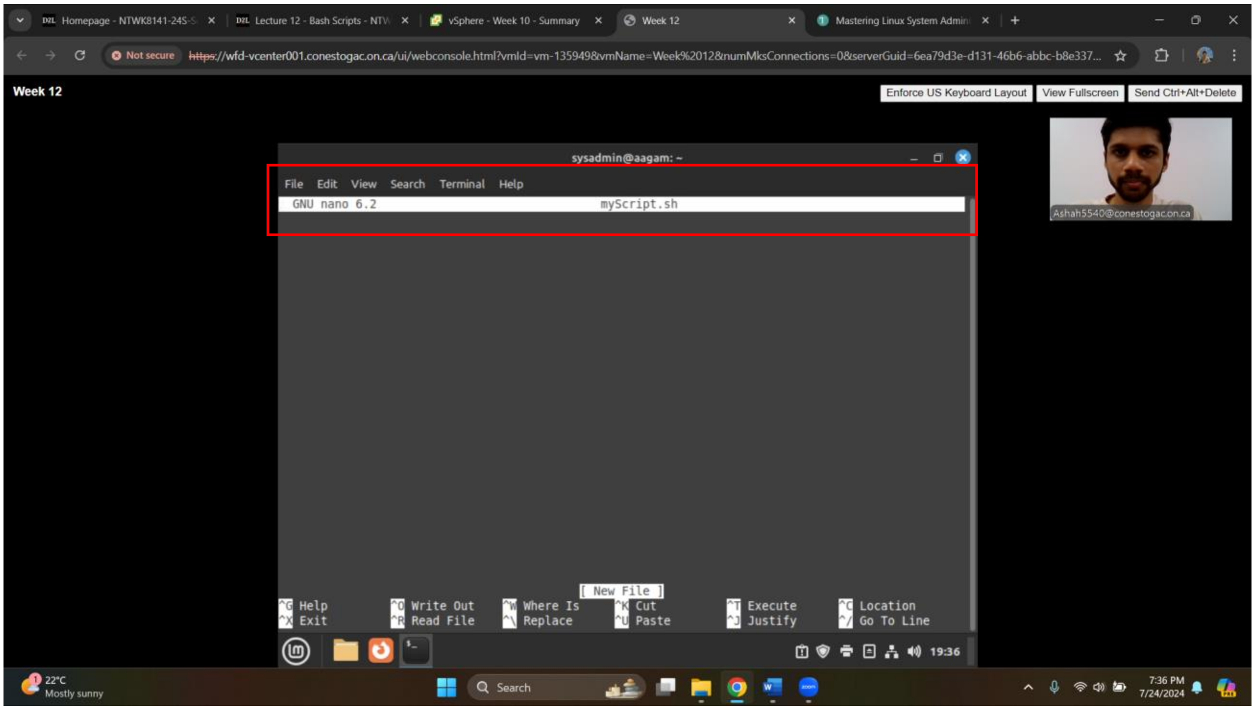
Week 12
sysadmin@aagam: /home/aagam
File Edit View Search Terminal Help
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete



```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ cd
sysadmin@aagam:~$ 
```

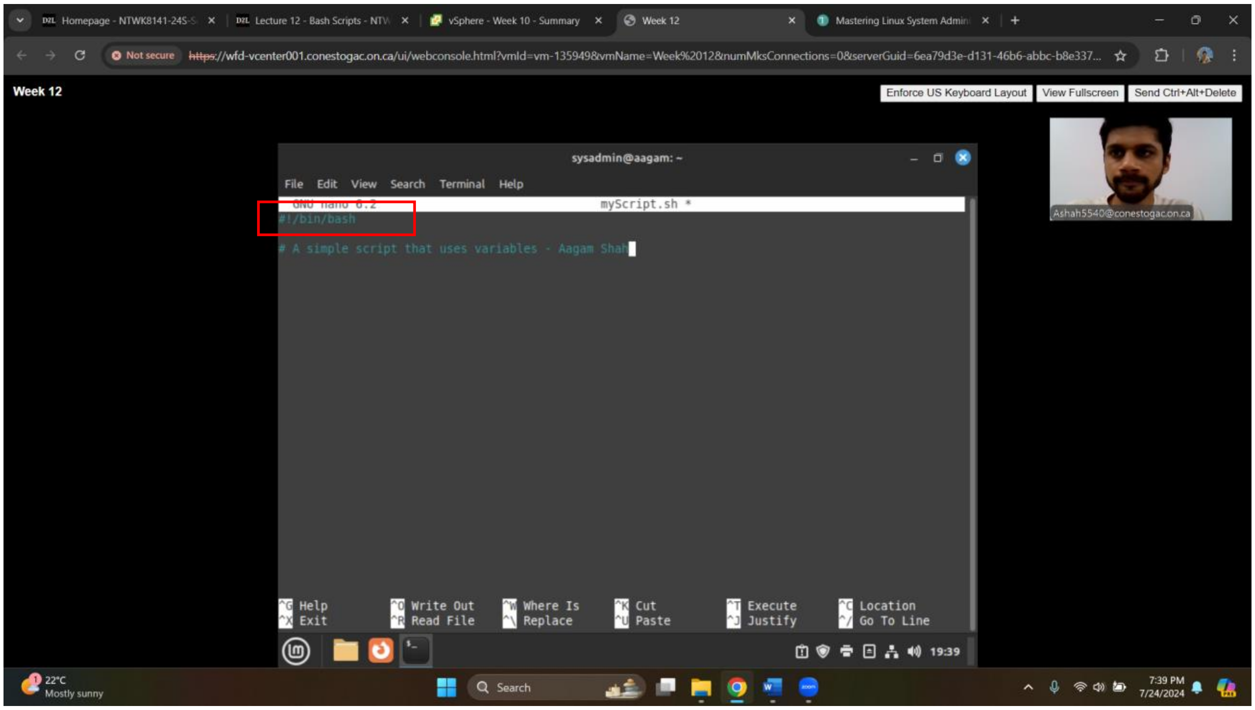
Week 12
sysadmin@aagam: ~
File Edit View Search Terminal Help
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete

2. **Start creating a shell script by typing nano myScript.sh and pressing Enter. This will create the file myScript.sh and put you into the nano text editor to start editing it.**


Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

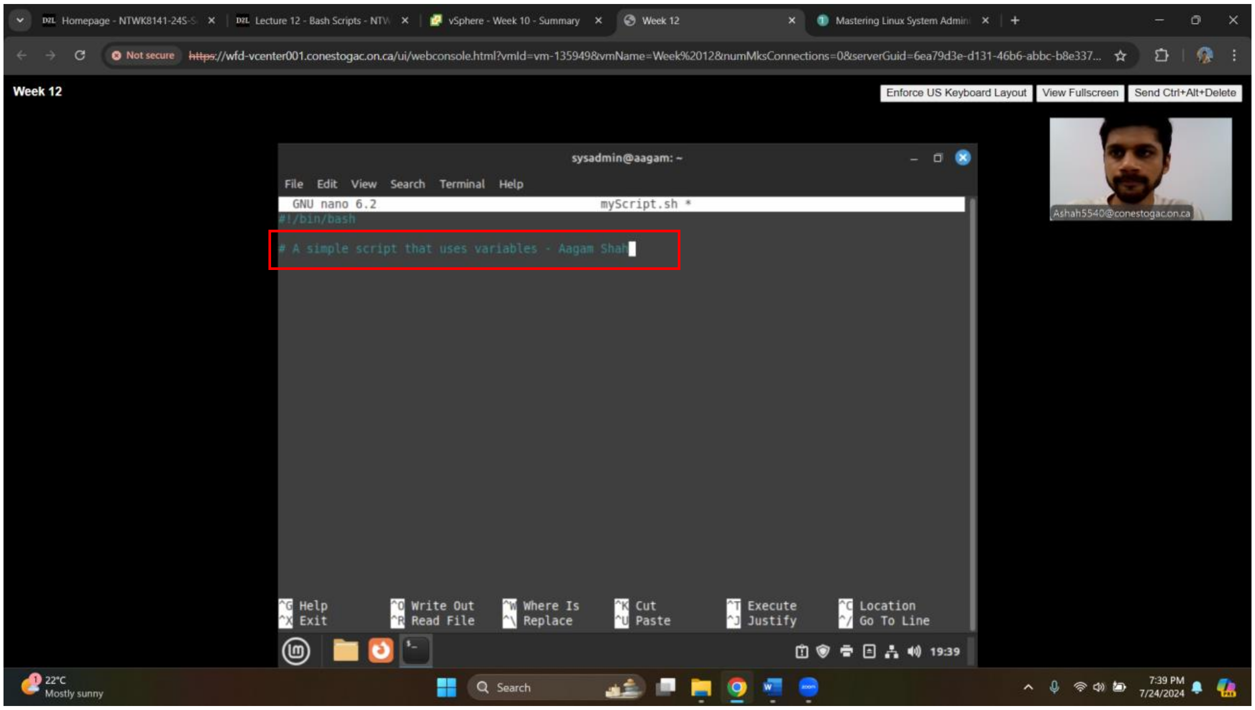
```
  GNU nano 6.2                          myScript.sh

                              [ New File ]
^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

3. **On the file's first line, type #!/bin/bash and press Enter. This will select the Bash shell to run the script when it is executed.**


Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

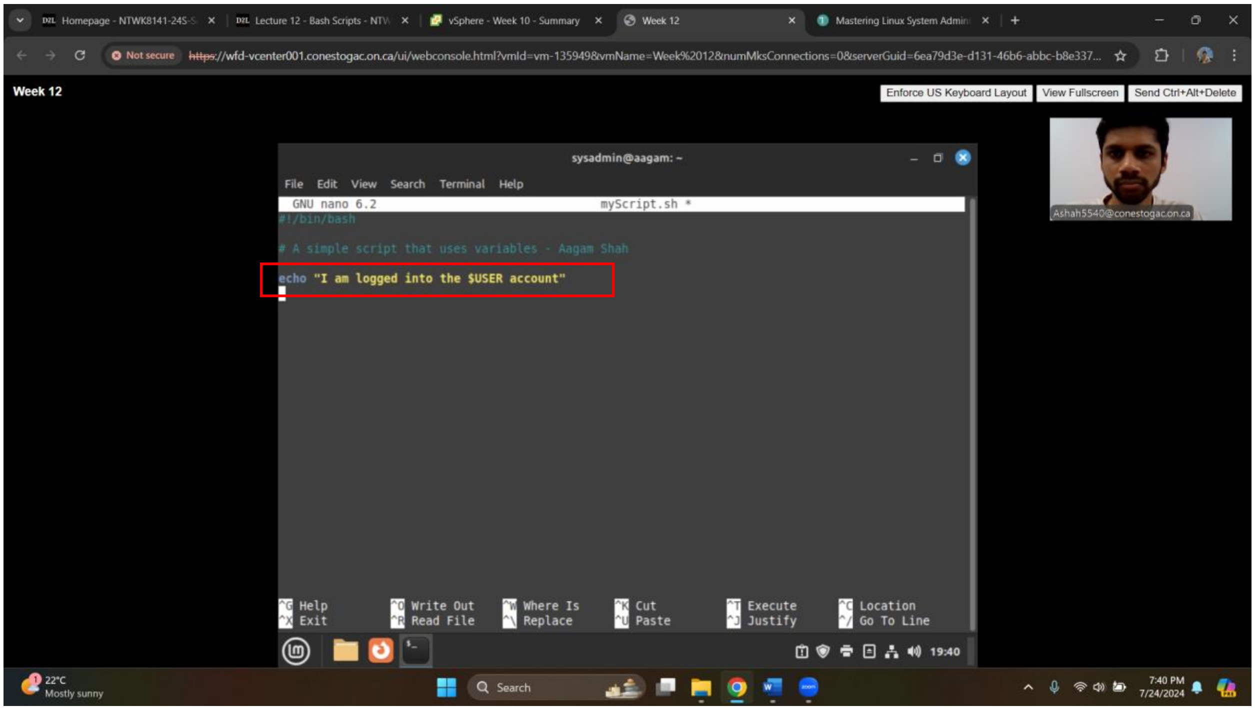
```
  GNU nano 6.2                          myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

4. **On the file's second line, type # A simple script that uses variables and press Enter. This is a comment line. You can add your name to the end of the comment line if you want.**


Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Mastering Linux System Admin
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
Ashah5540@conestogac.on.ca
sysadmin@aagam: ~
File Edit View Search Terminal Help
19:39
22°C
Mostly sunny
Search
7:39 PM
7/24/2024

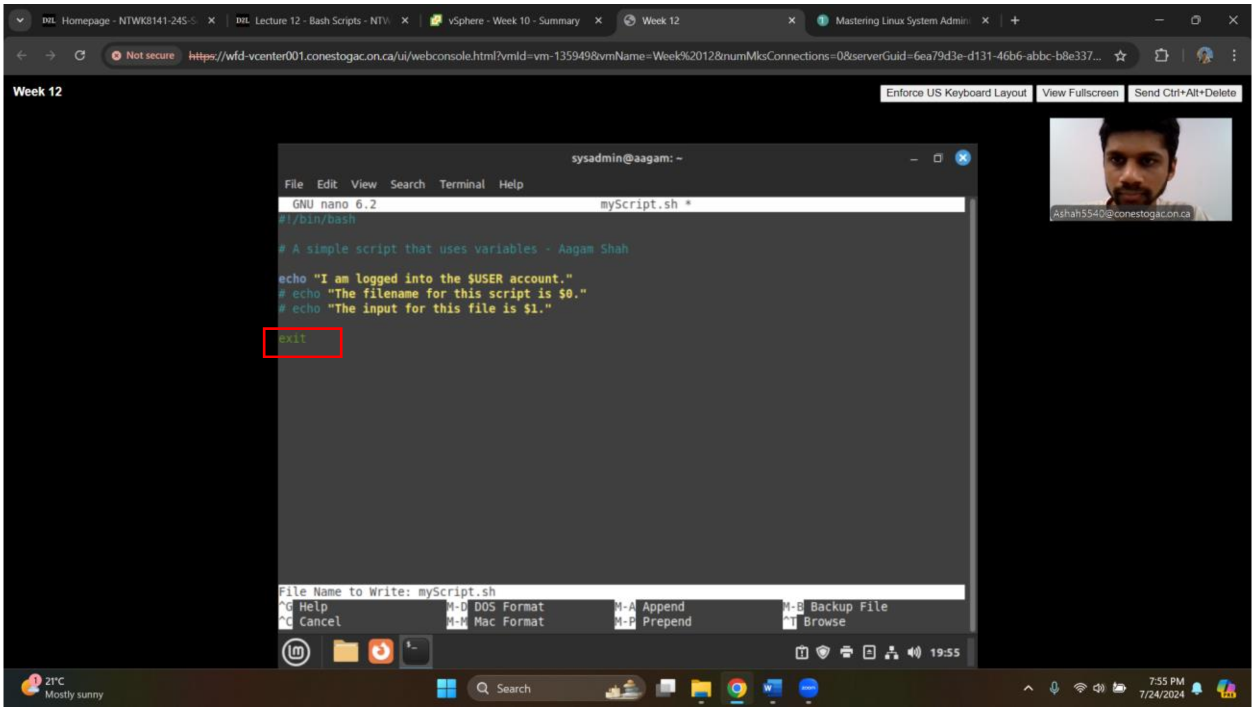
```
  GNU nano 6.2                          myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

5. **On the third line of the file, type echo "I am logged into the $USER account." and press Enter. This will display the text along with the username of the current account you are using.**


Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Mastering Linux System Admin
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
Ashah5540@conestogac.on.ca
sysadmin@aagam: ~
File Edit View Search Terminal Help
19:40
22°C
Mostly sunny
Search
7:40 PM
7/24/2024

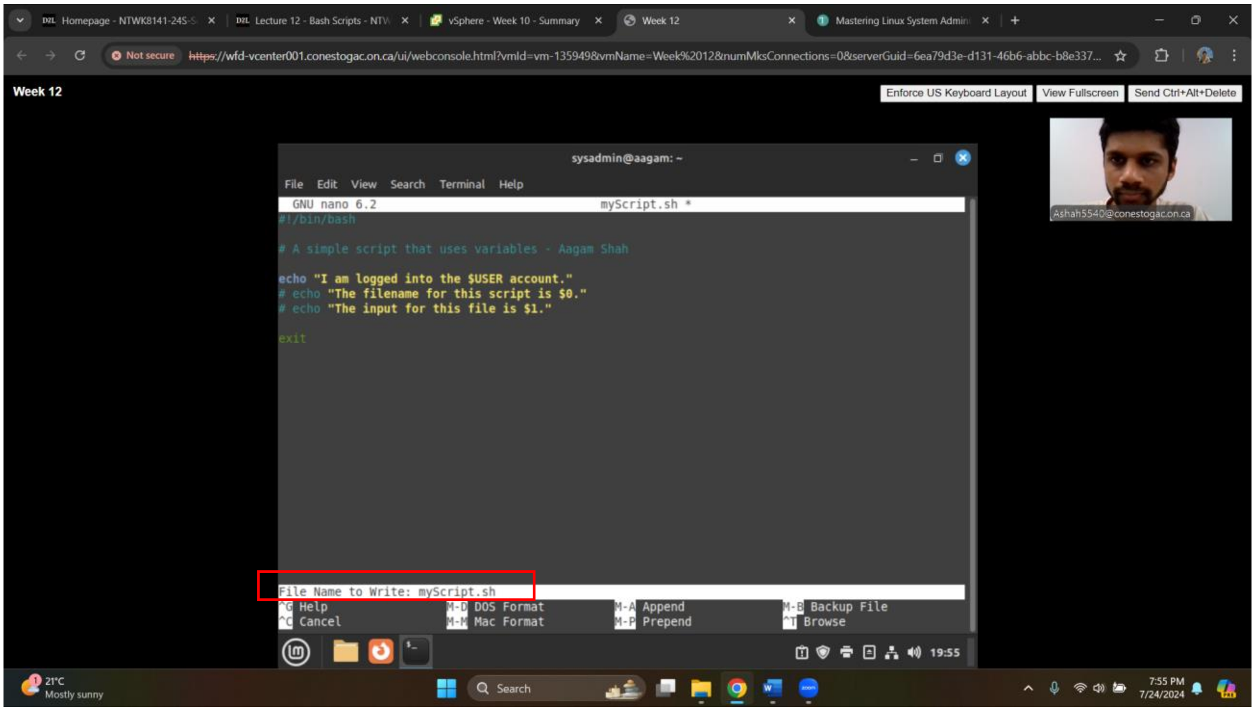
```
  GNU nano 6.2                          myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

echo "I am logged into the $USER account"

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

6. **On the file's last line, type exit.**


Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Mastering Linux System Admin
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
Ashah5540@conestogac.on.ca
sysadmin@aagam: ~
File Edit View Search Terminal Help
19:55
21°C
Mostly sunny
Search
7:55 PM
7/24/2024

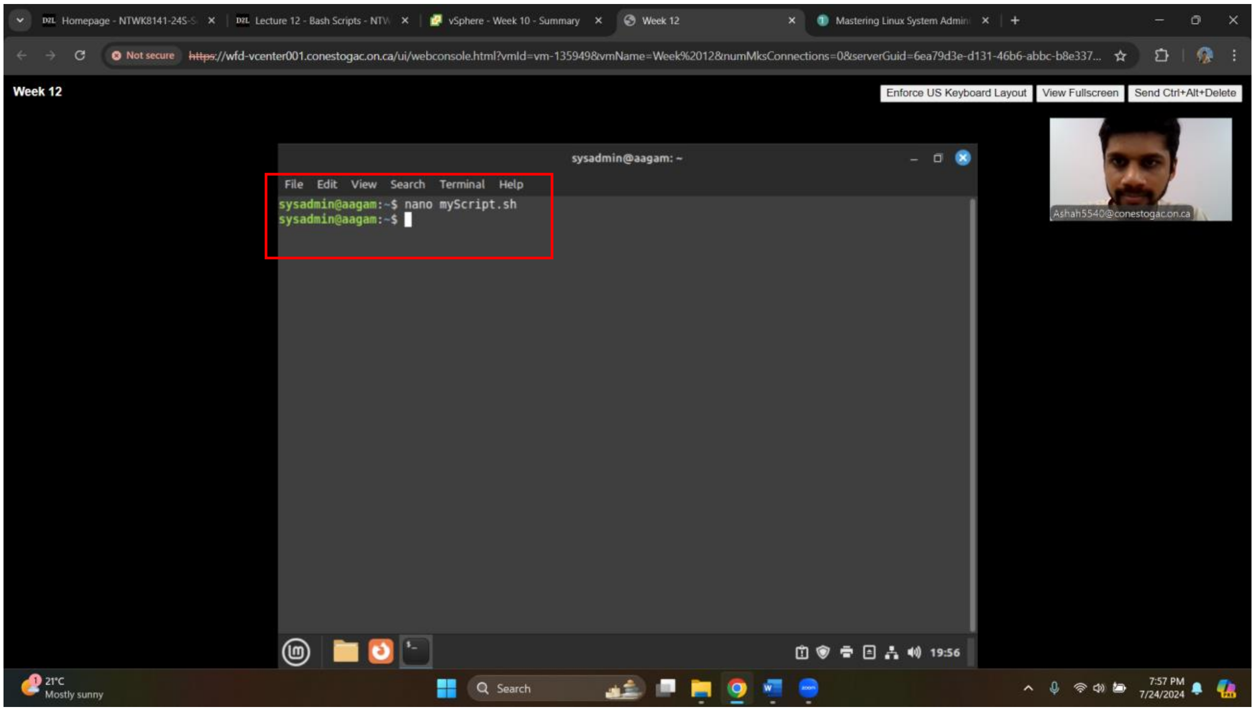
```
  GNU nano 6.2                          myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

echo "I am logged into the $USER account."
# echo "The filename for this script is $0."
# echo "The input for this file is $1."

exit









File Name to Write: myScript.sh
^G Help          M-D DOS Format     M-A Append       M-B Backup File
^C Cancel        M-M Mac Format     M-P Prepend      ^T Browse
```

7. **Save the entered text to the script file by pressing Ctrl+O and pressing Enter when the file's name displays on the text editor's status line.**


Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Mastering Linux System Admin
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
Ashah5540@conestogac.on.ca
sysadmin@aagam: ~
File Edit View Search Terminal Help
19:55
21°C
Mostly sunny
Search
7:55 PM
7/24/2024

```
  GNU nano 6.2                          myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

echo "I am logged into the $USER account."
# echo "The filename for this script is $0."
# echo "The input for this file is $1."

exit









File Name to Write: myScript.sh
^G Help          M-D DOS Format     M-A Append       M-B Backup File
^C Cancel        M-M Mac Format     M-P Prepend      ^T Browse
```

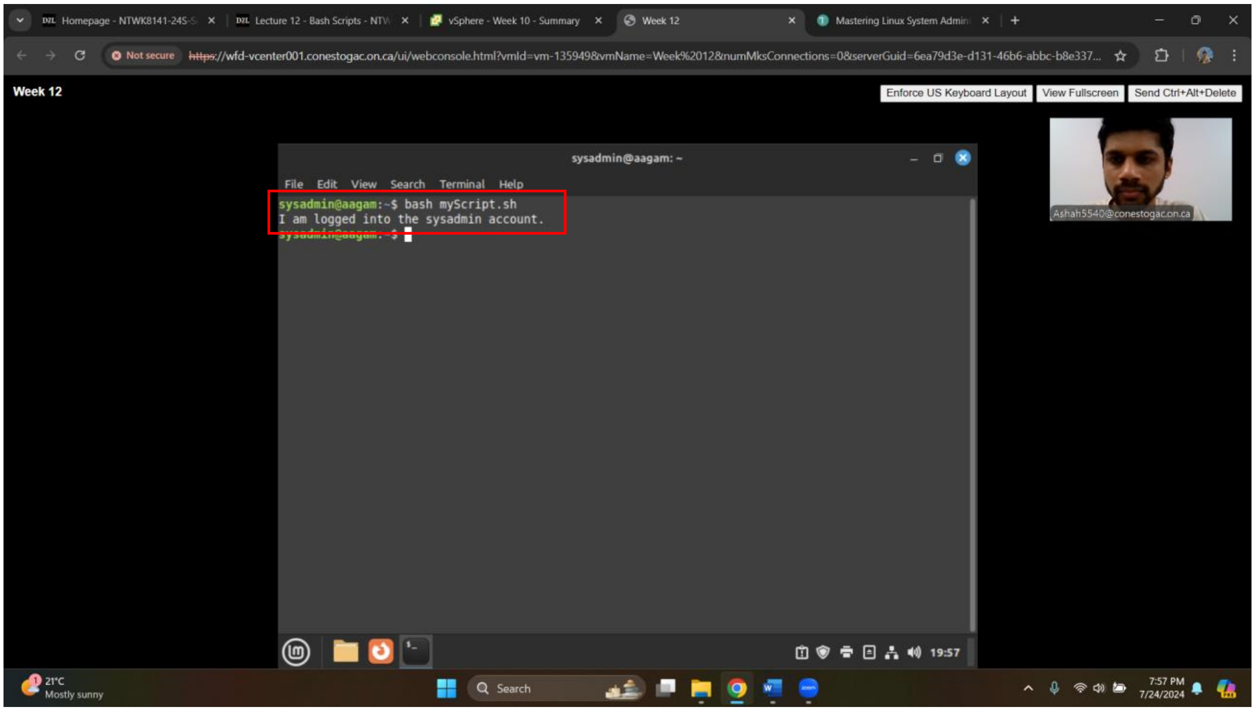
8. **Exit the nano text editor by pressing Ctrl+X.**



```
sysadmin@aagam:~$ nano myScript.sh
sysadmin@aagam:~$ 
```

Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
19:56
Ashah5540@conestogac.on.ca

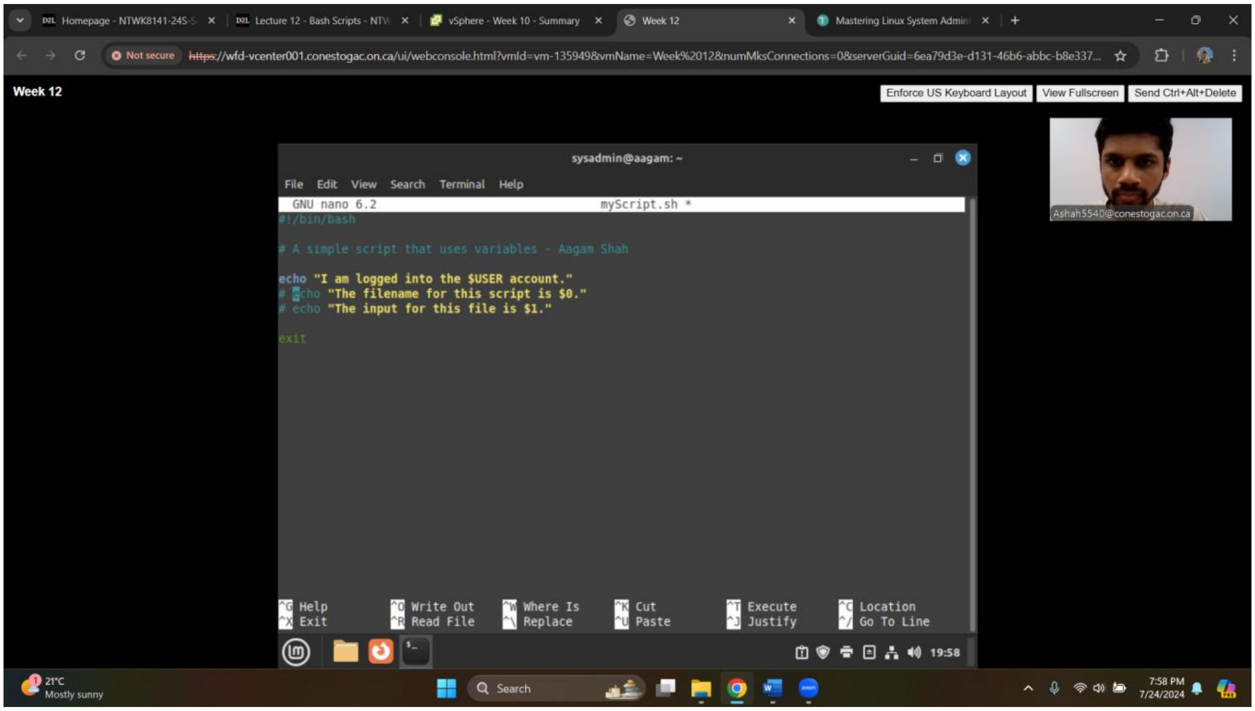
9. **Try running the script by typing bash myScript.sh and pressing Enter.**



```
sysadmin@aagam:~$ bash myScript.sh
I am logged into the sysadmin account.
sysadmin@aagam:~$ 
```

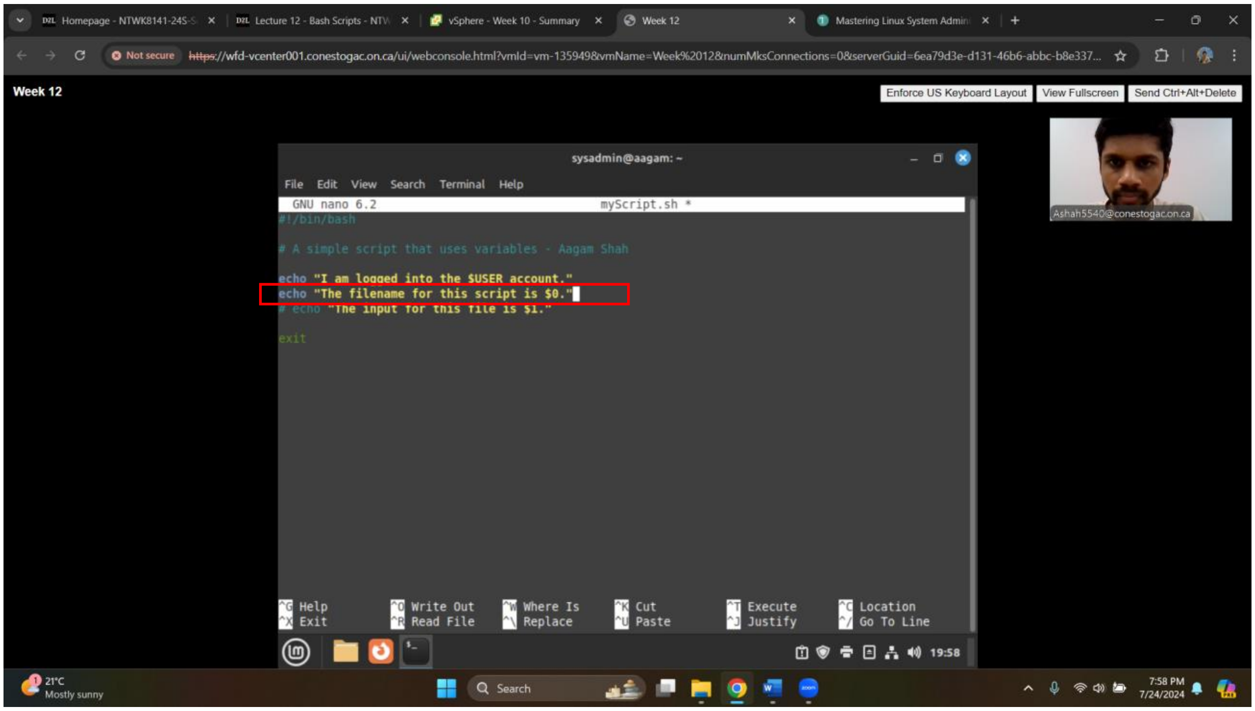
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
19:57
Ashah5540@conestogac.on.ca

10. **If the script did not run successfully, go back and edit the file, making any needed corrections.**


Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Mastering Linux System Admin
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca
19:58
21°C
Mostly sunny
Search
7:58 PM
7/24/2024

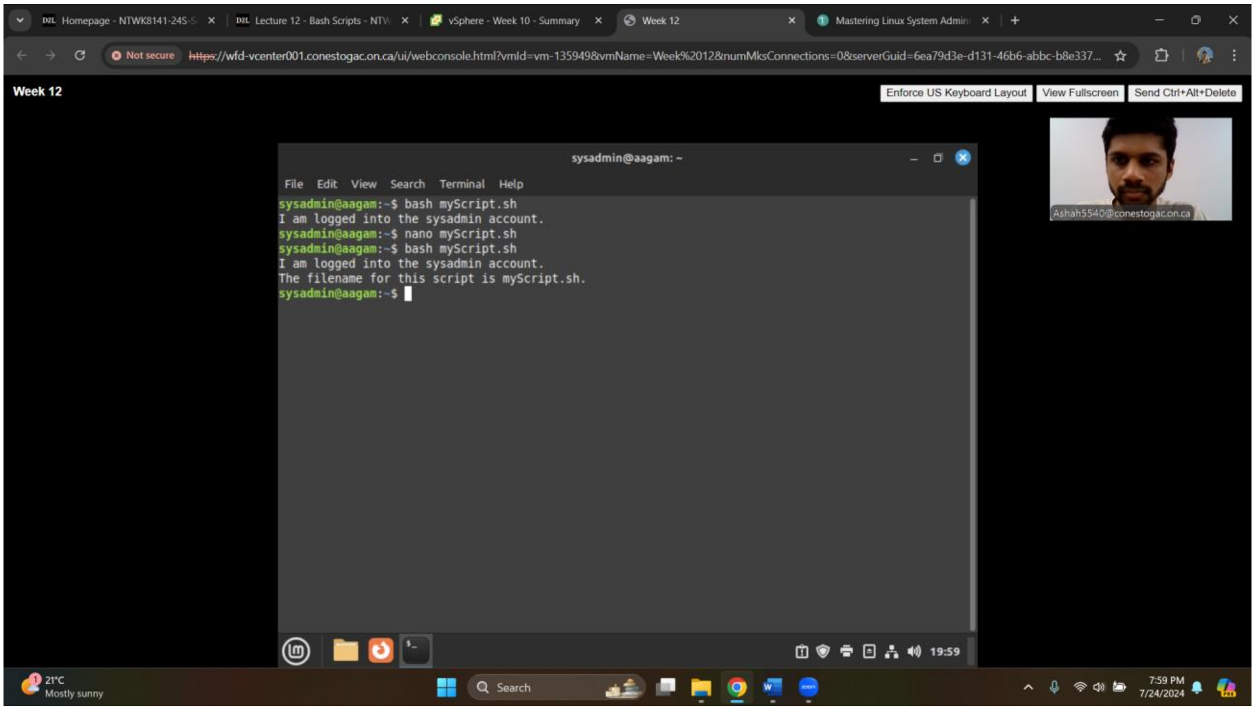
```
  GNU nano 6.2                         myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

echo "I am logged into the $USER account."
# echo "The filename for this script is $0."
# echo "The input for this file is $1."

exit

^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

11. **Once you have the script running correctly, try adding a new echo command that uses the $0 parameter value, which is the script's filename.**

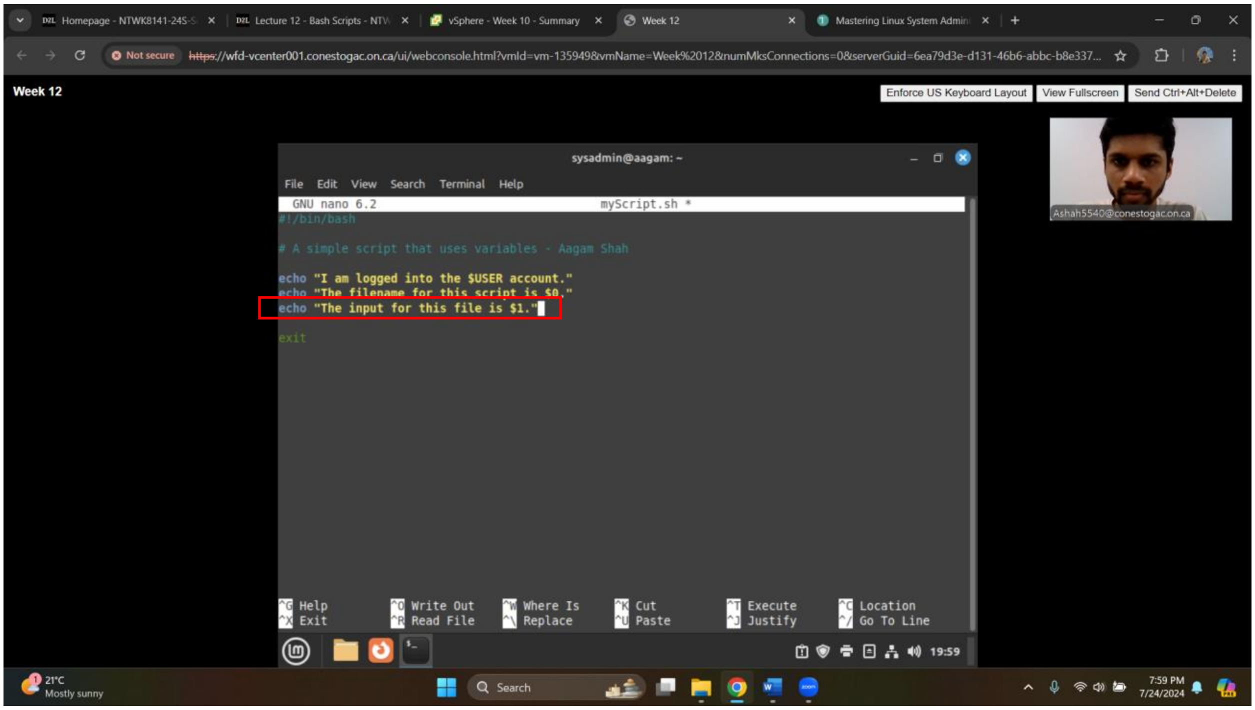

Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Mastering Linux System Admin
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca
19:58
21°C
Mostly sunny
Search
7:58 PM
7/24/2024

```
  GNU nano 6.2                         myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

echo "I am logged into the $USER account."
echo "The filename for this script is $0."
# echo "The input for this file is $1."

exit

^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

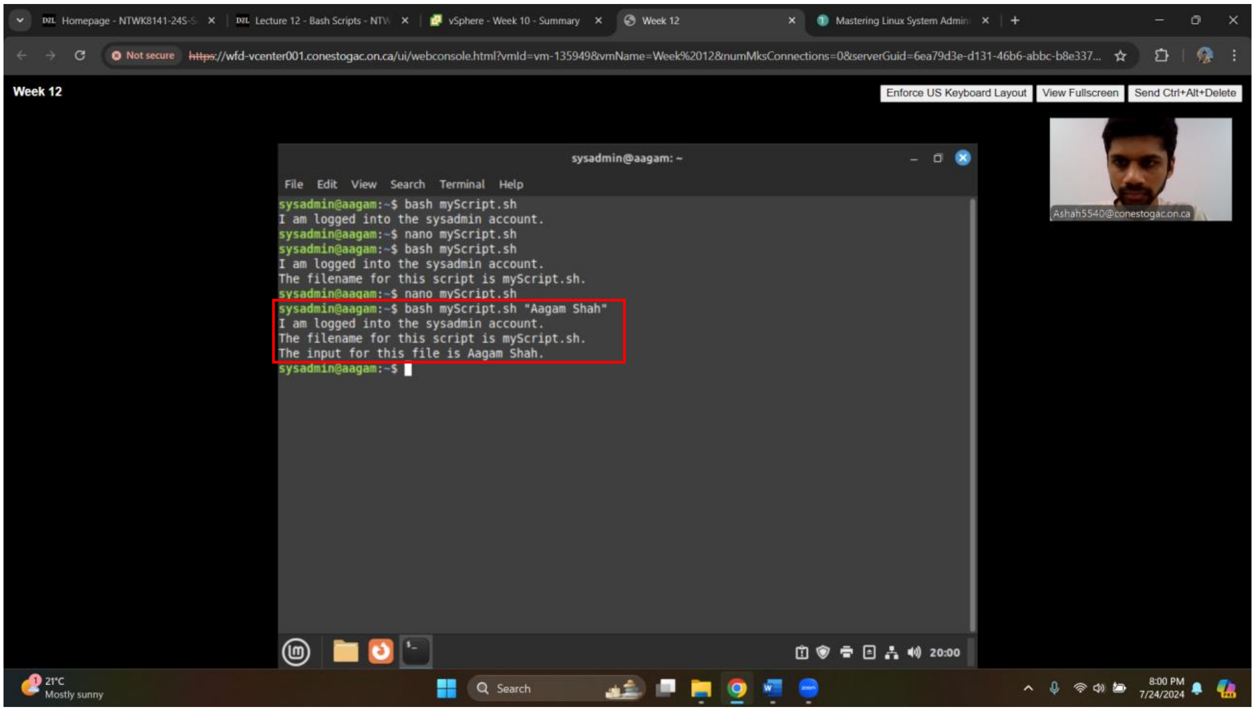
12. **After you get the script modification working with the $0 parameter value, add another echo command that uses a parameter you pass to the script ($1).**



```
sysadmin@aagam:~$ bash myScript.sh
I am logged into the sysadmin account.
sysadmin@aagam:~$ nano myScript.sh
sysadmin@aagam:~$ bash myScript.sh
I am logged into the sysadmin account.
The filename for this script is myScript.sh.
sysadmin@aagam:~$
```



```
  GNU nano 6.2                    myScript.sh *
#!/bin/bash

# A simple script that uses variables - Aagam Shah

echo "I am logged into the $USER account."
echo "The filename for this script is $0."
echo "The input for this file is $1."

exit
```


Week 12
sysadmin@aagam: ~
File Edit View Search Terminal Help
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete

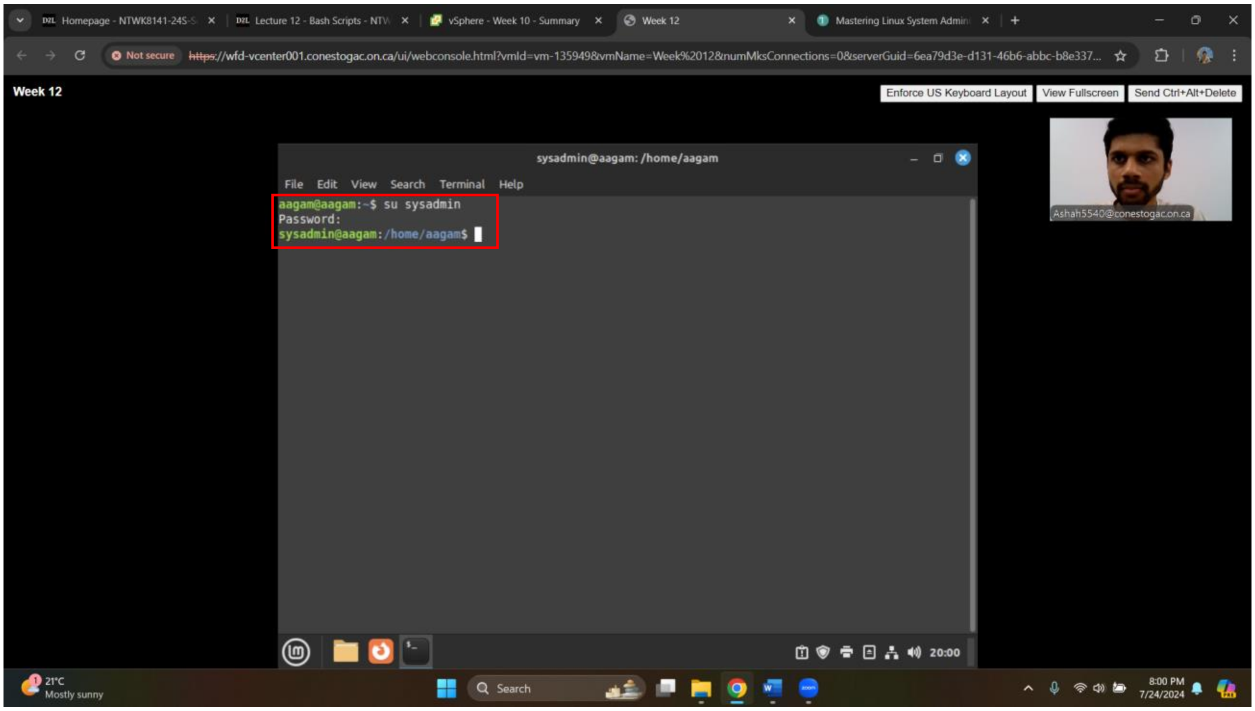
```
sysadmin@aagam:~$ bash myScript.sh
I am logged into the sysadmin account.
sysadmin@aagam:~$ nano myScript.sh
sysadmin@aagam:~$ bash myScript.sh
I am logged into the sysadmin account.
The filename for this script is myScript.sh.
sysadmin@aagam:~$ nano myScript.sh
sysadmin@aagam:~$ bash myScript.sh "Aagam Shah"
I am logged into the sysadmin account.
The filename for this script is myScript.sh.
The input for this file is Aagam Shah.
sysadmin@aagam:~$ 
```

In Class Task: loops

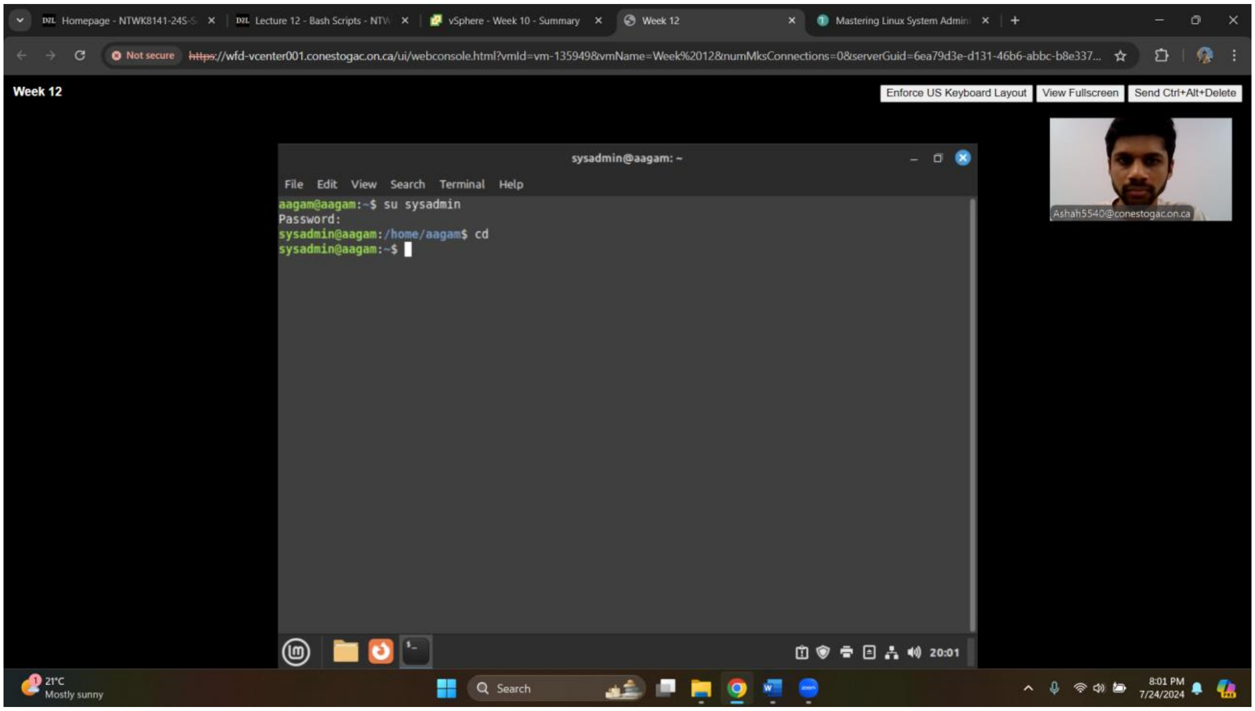
Complete the Real World Scenario: Adding Conditional Expressions and Loops to a Shell Script in Ch 19

ADDING CONDITIONAL EXPRESSIONS AND LOOPS TO A SHELL SCRIPT

1. **Log into your Linux system, using the sysadmin account and the password you created for it.**

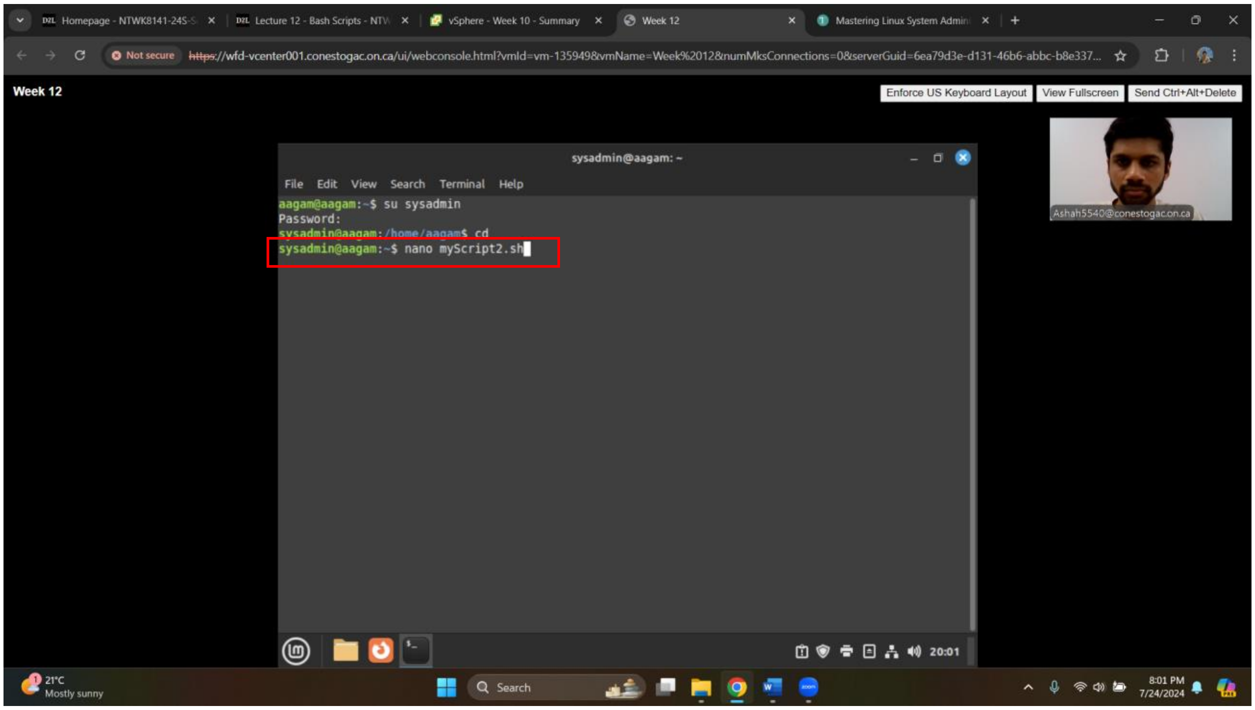

Week 12
sysadmin@aagam: /home/aagam
File Edit View Search Terminal Help
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete

```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ 
```

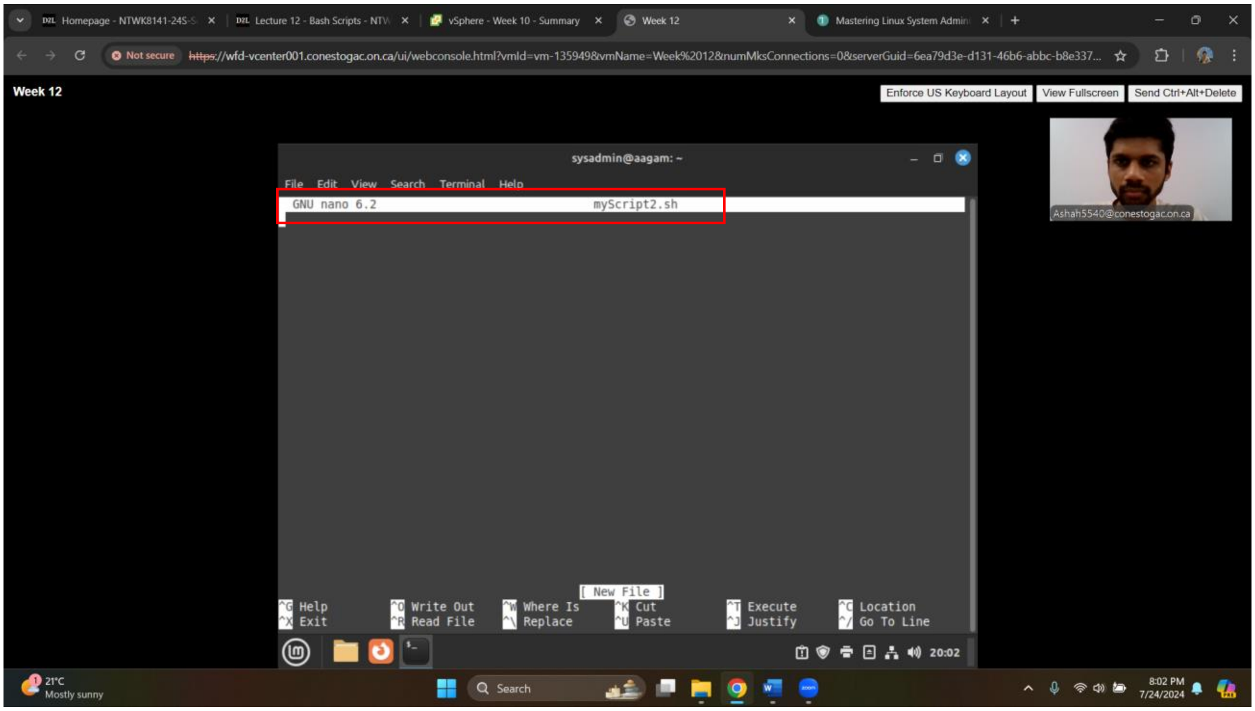

Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ cd
sysadmin@aagam:~$
```

2. **Start creating a shell script by typing nano myScript2.sh and pressing Enter. This creates the file myScript2.sh, and puts you into the nano text editor to start editing it.**

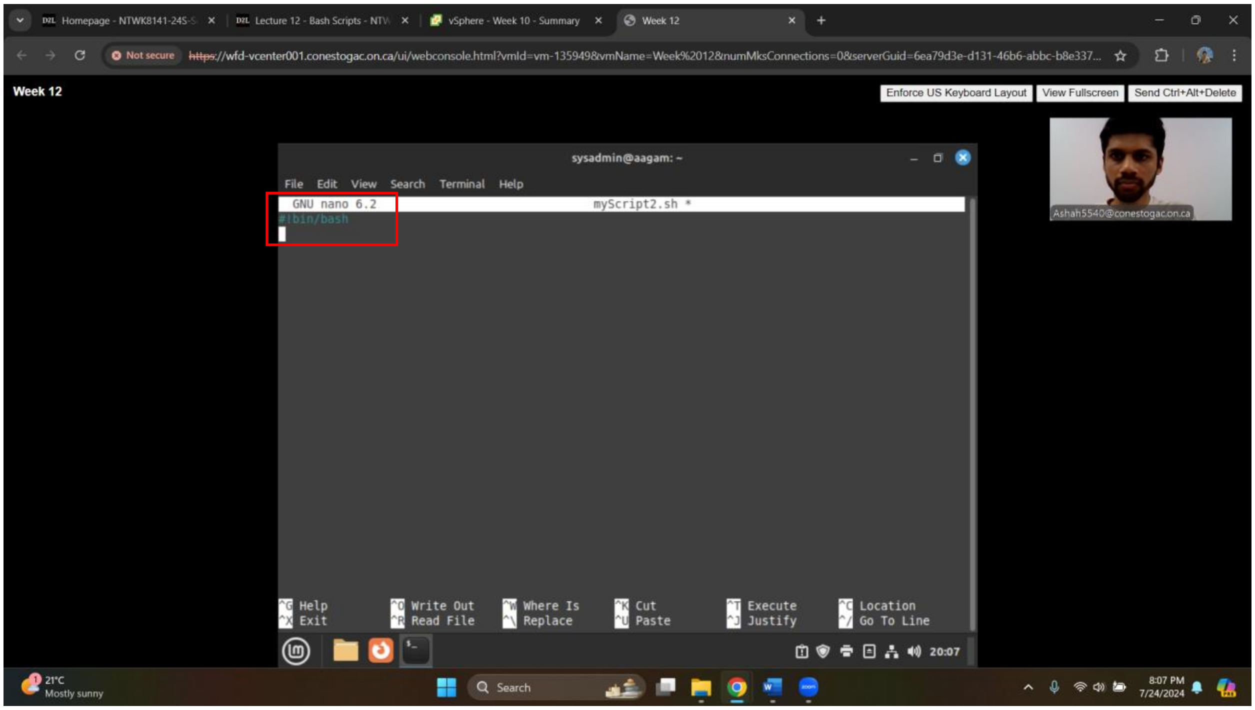

Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ cd
sysadmin@aagam:~$ nano myScript2.sh
```



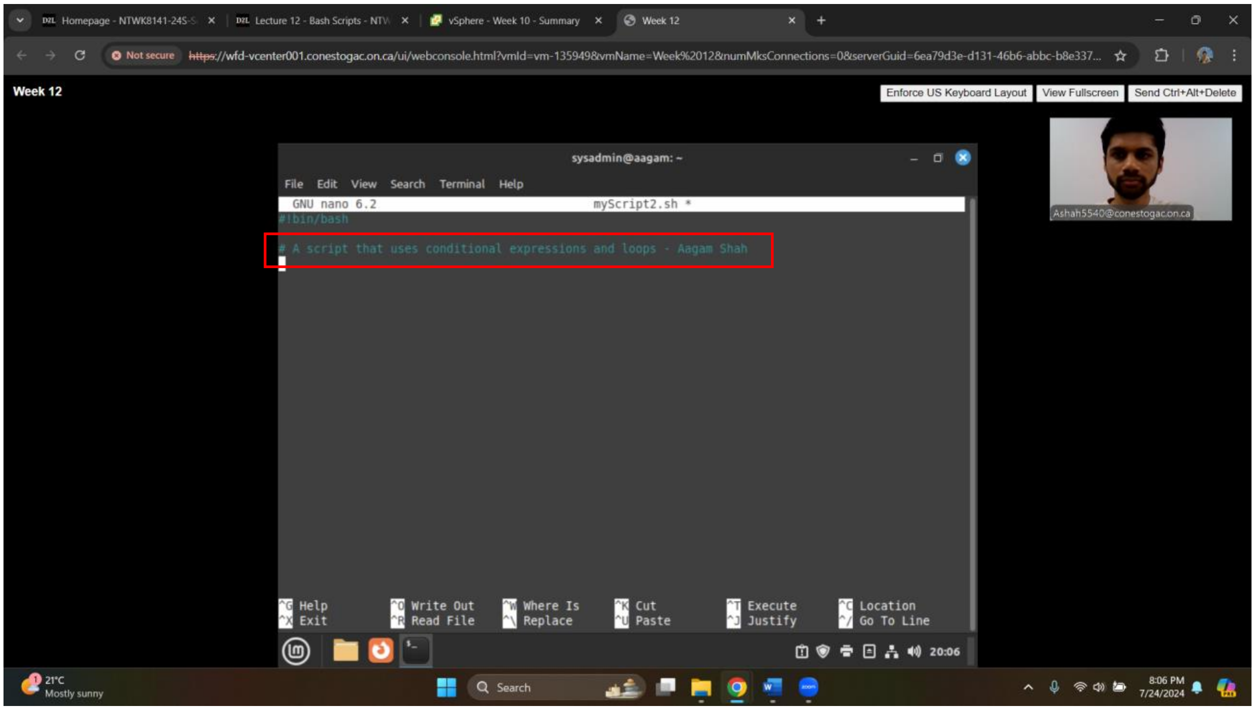
```
  GNU nano 6.2                          myScript2.sh

                                  [ New File ]
^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line
```

3. **On the file's first line, type #!/bin/bash and press Enter to select the Bash shell to run the script when it is executed.**



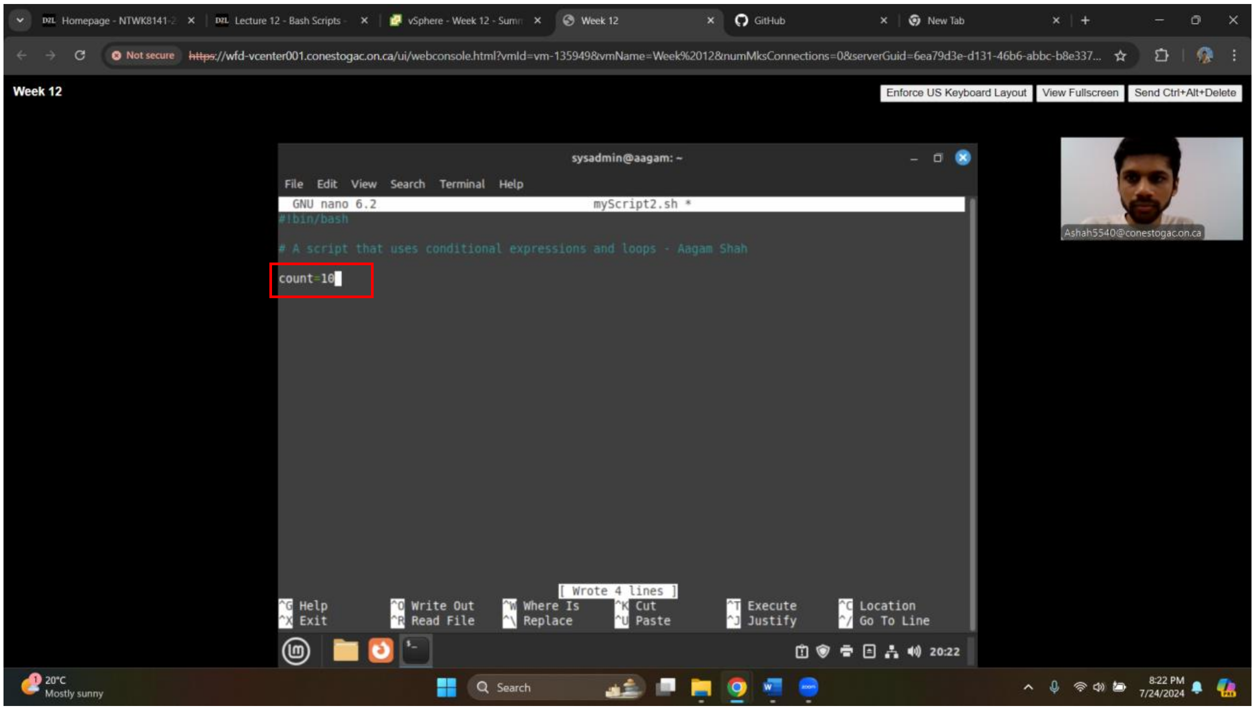
```
  GNU nano 6.2                          myScript2.sh *
#!bin/bash

^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line
```

4. **On the file's second line, type # A script that uses conditional expressions and loops and press Enter. You can add your name to the end of the comment line, if you want to.**


Homepage - NTWK8141-24S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 10 - Summary
Week 12
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File
Edit
View
Search
Terminal
Help
Ashah5540@conestogac.on.ca
20:06
21°C
Mostly sunny
Search
8:06 PM
7/24/2024

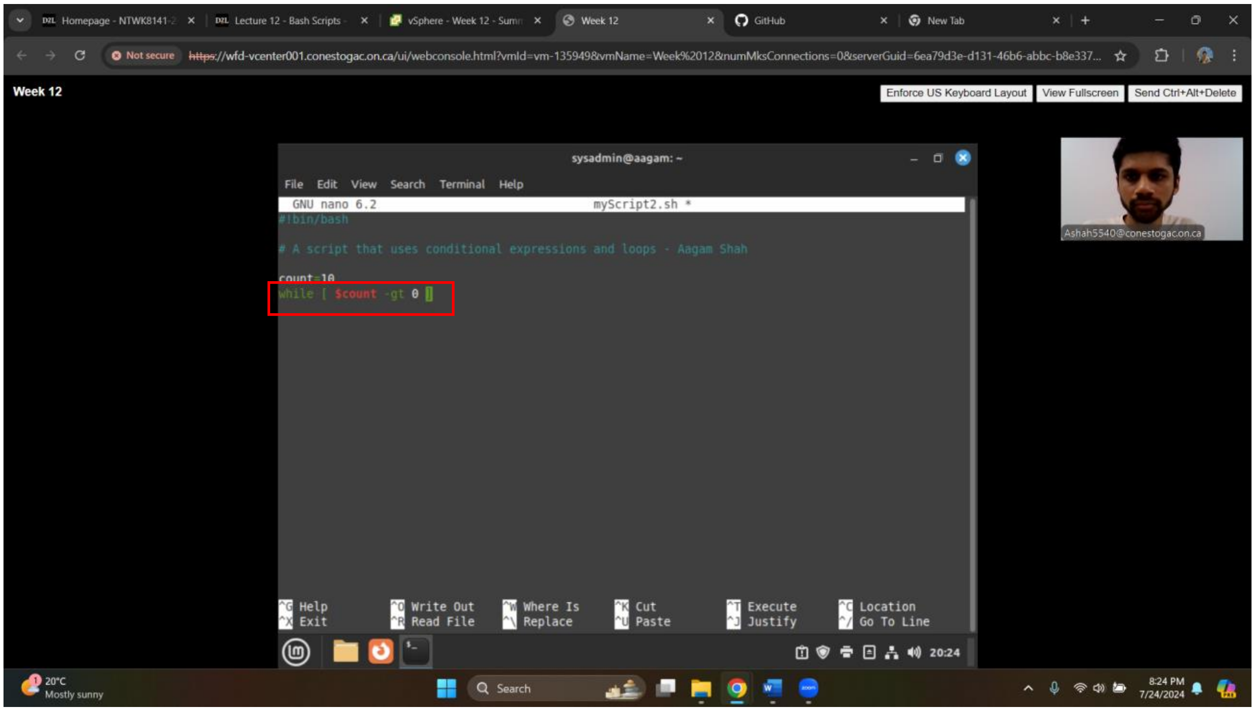
```
 GNU nano 6.2                    myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah


^G Help      ^O Write Out  ^W Where Is   ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste     ^J Justify   ^/ Go To Line
```

5. **On the third line of the file, create a variable and give it a value by typing count=10 and pressing Enter.**


Homepage - NTWK8141-2
Lecture 12 - Bash Scripts
vSphere - Week 12 - Summ
Week 12
GitHub
New Tab
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File
Edit
View
Search
Terminal
Help
Ashah5540@conestogac.on.ca
20:22
20°C
Mostly sunny
Search
8:22 PM
7/24/2024

```
 GNU nano 6.2                    myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10


                                [ Wrote 4 lines ]
^G Help      ^O Write Out  ^W Where Is   ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste     ^J Justify   ^/ Go To Line
```

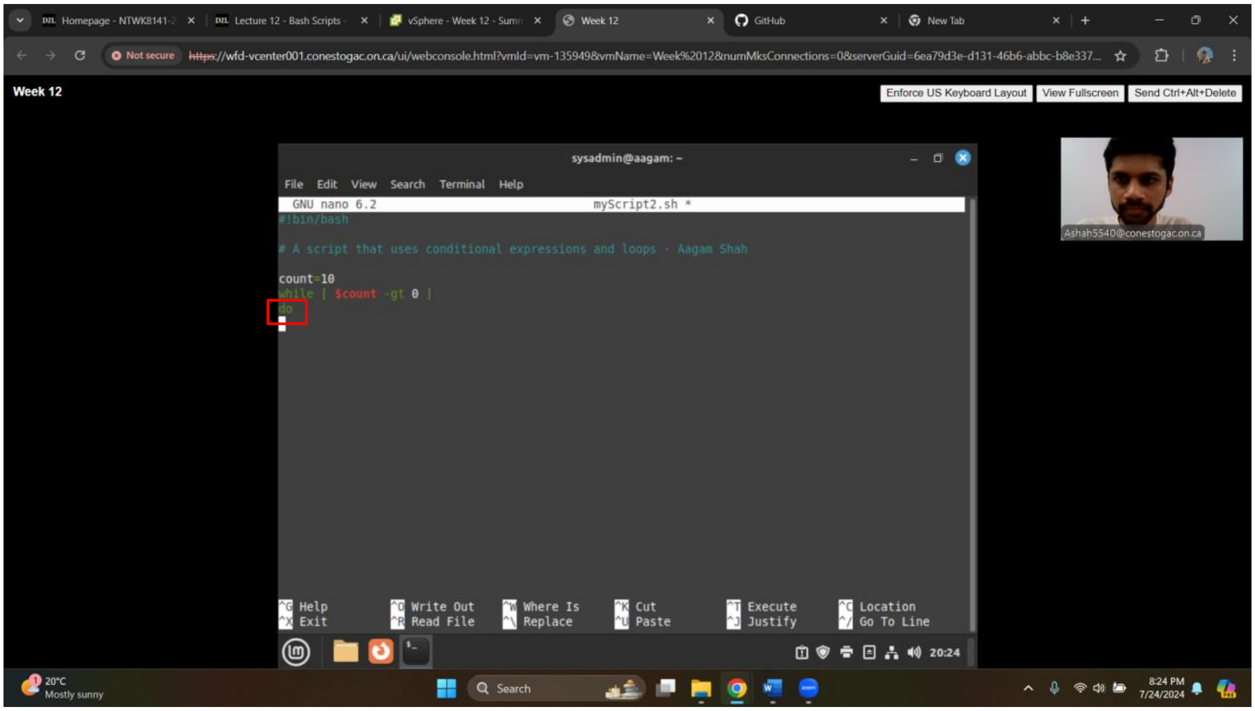
6. **On the next file line, begin a while loop by typing while [$count -gt 0] and pressing Enter.**



Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

```
  GNU nano 6.2                          myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]




^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

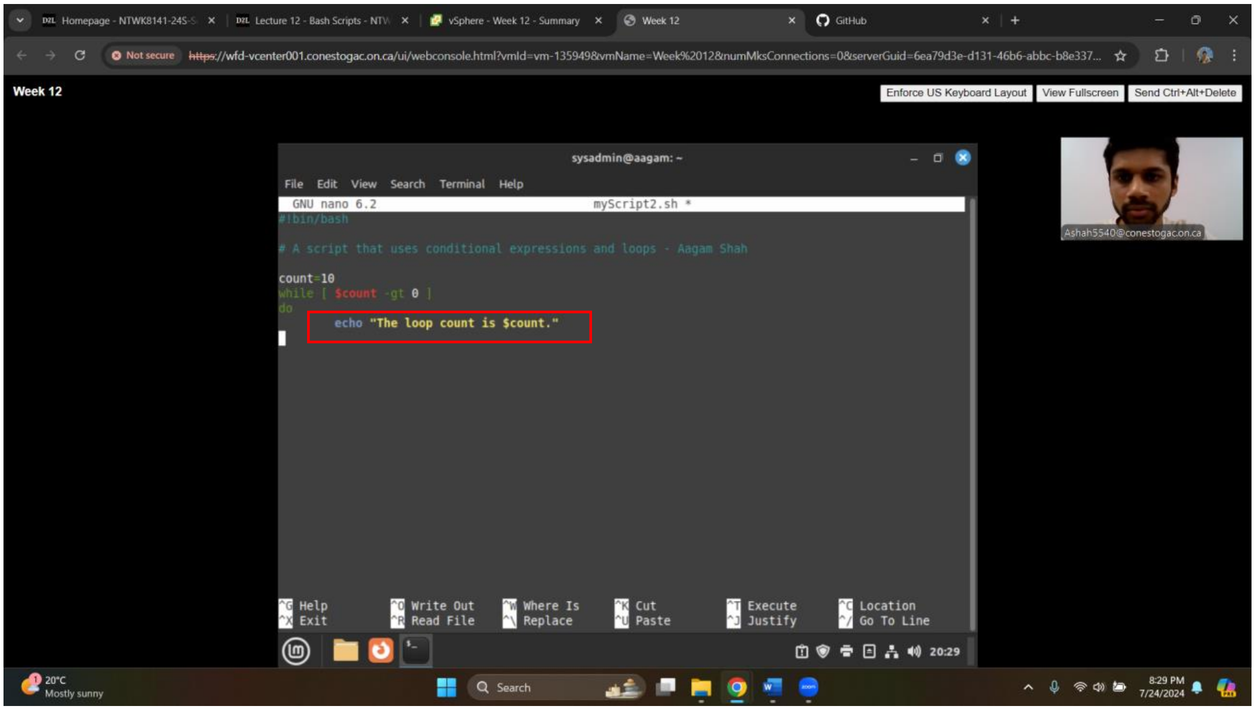
7. **On the file's next line, type do and press Enter.**



Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

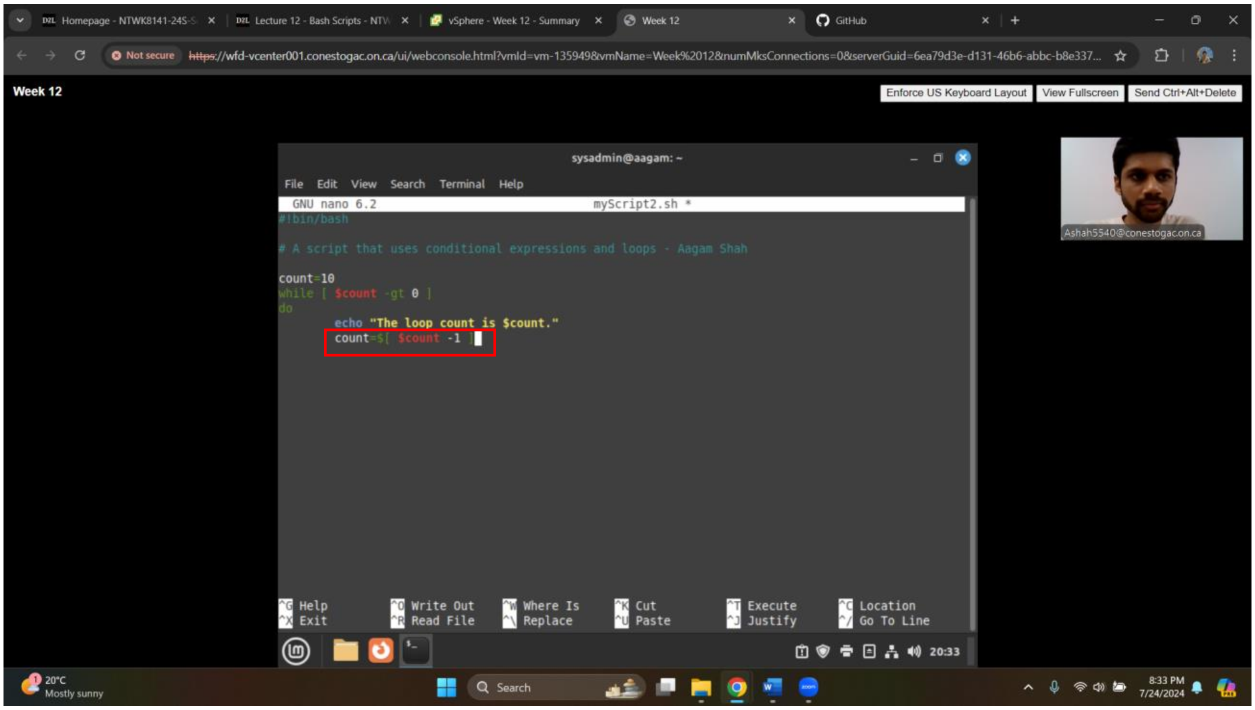
```
  GNU nano 6.2                          myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do




^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

8. **Now add a command to the loop by pressing Tab, typing echo The loop count is $count, and pressing Enter.**



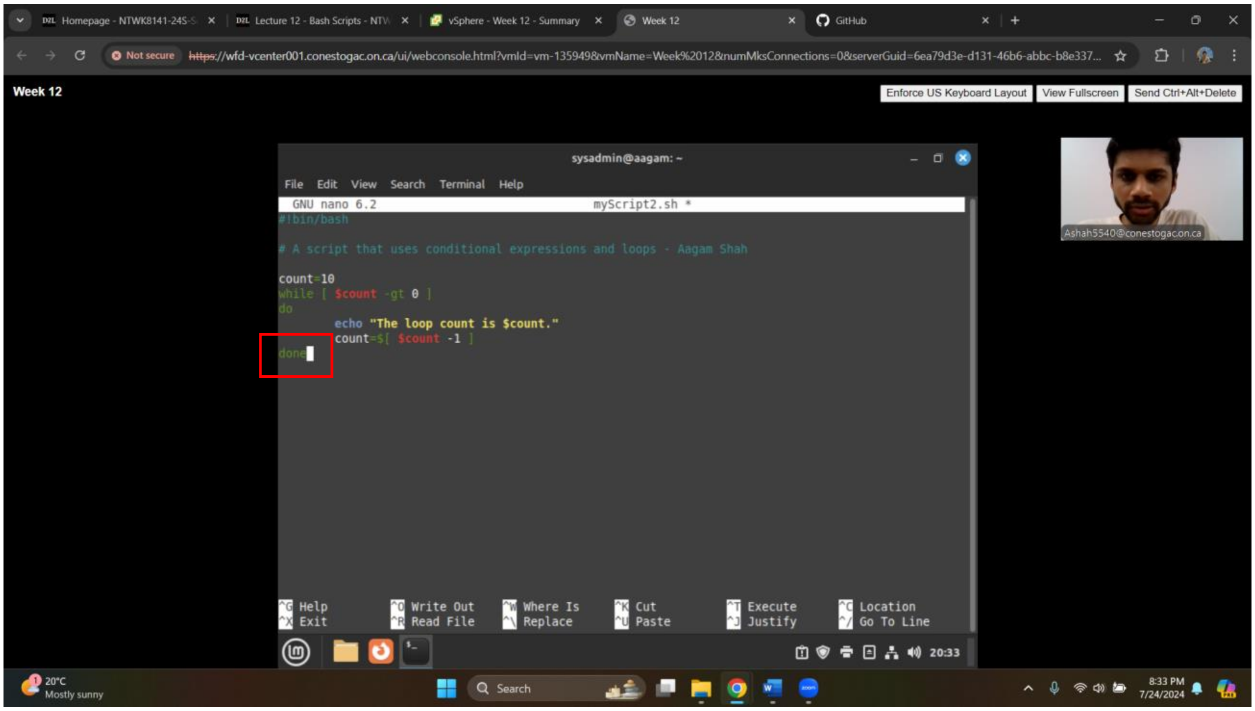
```
  GNU nano 6.2                        myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."

```

9. **Add a second command to the loop by pressing Tab, typing count=[$count - 1], and pressing Enter.**



```
  GNU nano 6.2                        myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
```

10. End the loop by typing done and pressing Enter.

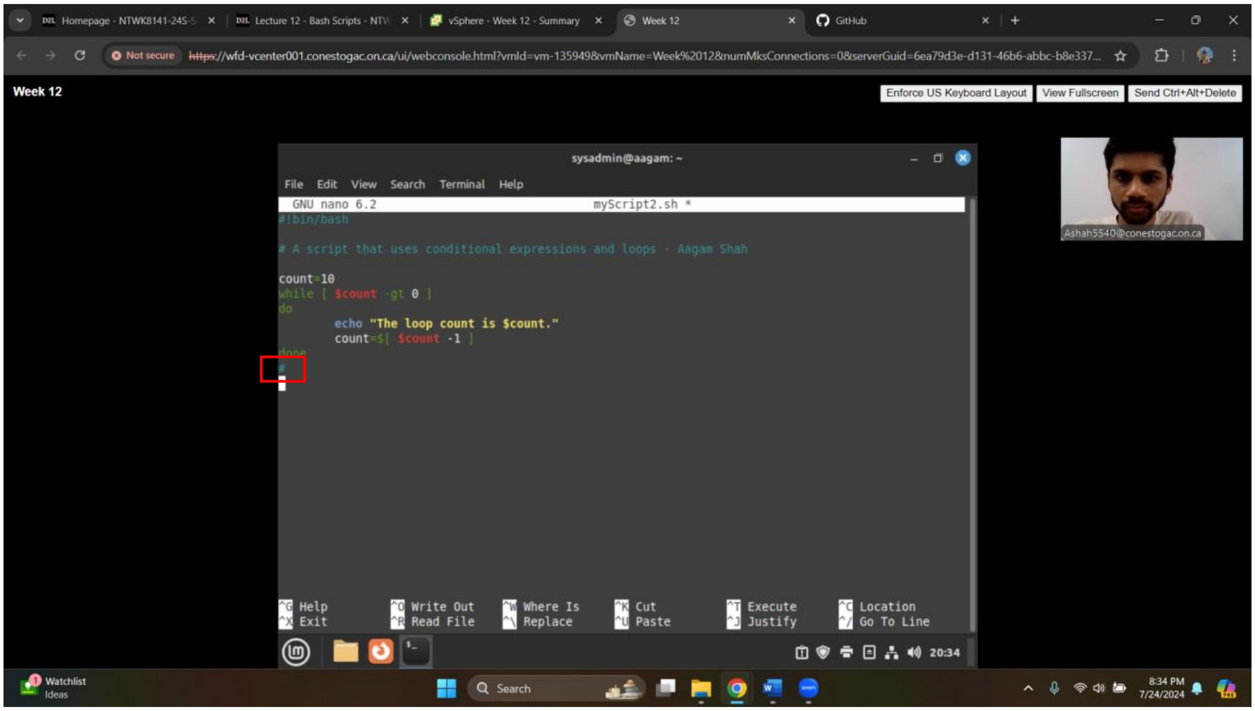


Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

```
  GNU nano 6.2                         myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
```

```
^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

11. Add a blank comment line by typing # and pressing Enter. This will help the readability of the script.

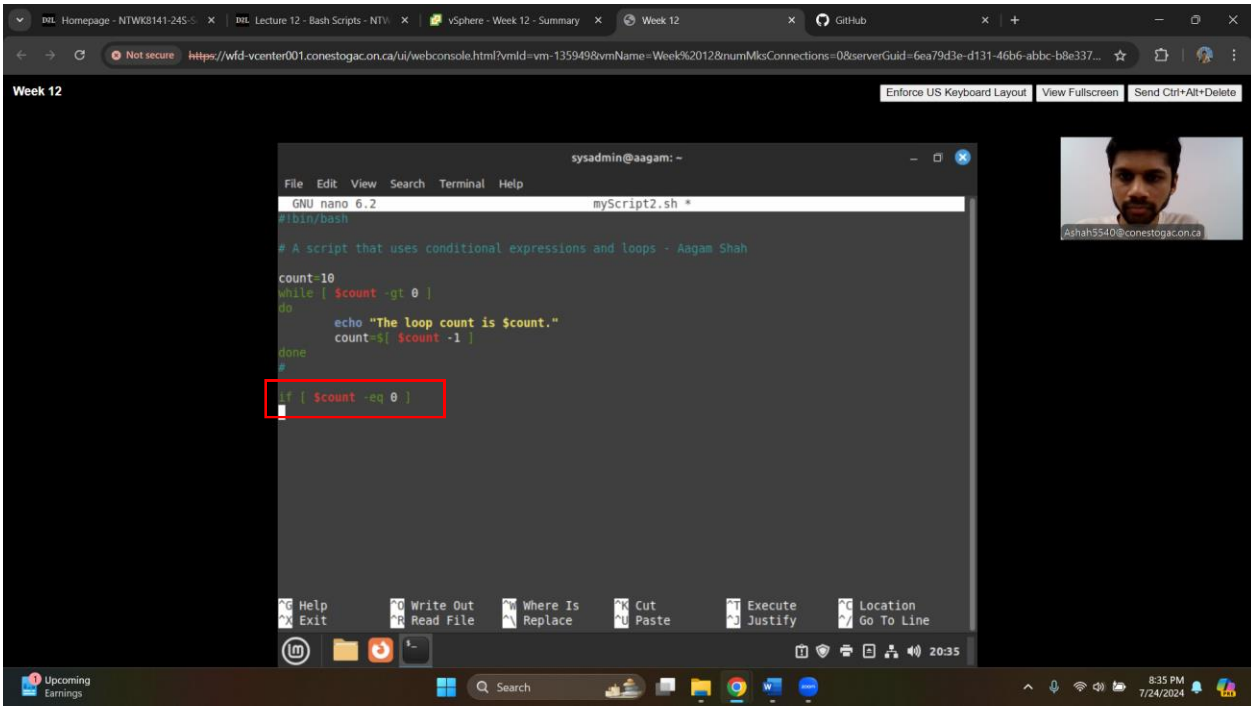


Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca

```
  GNU nano 6.2                         myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#
```

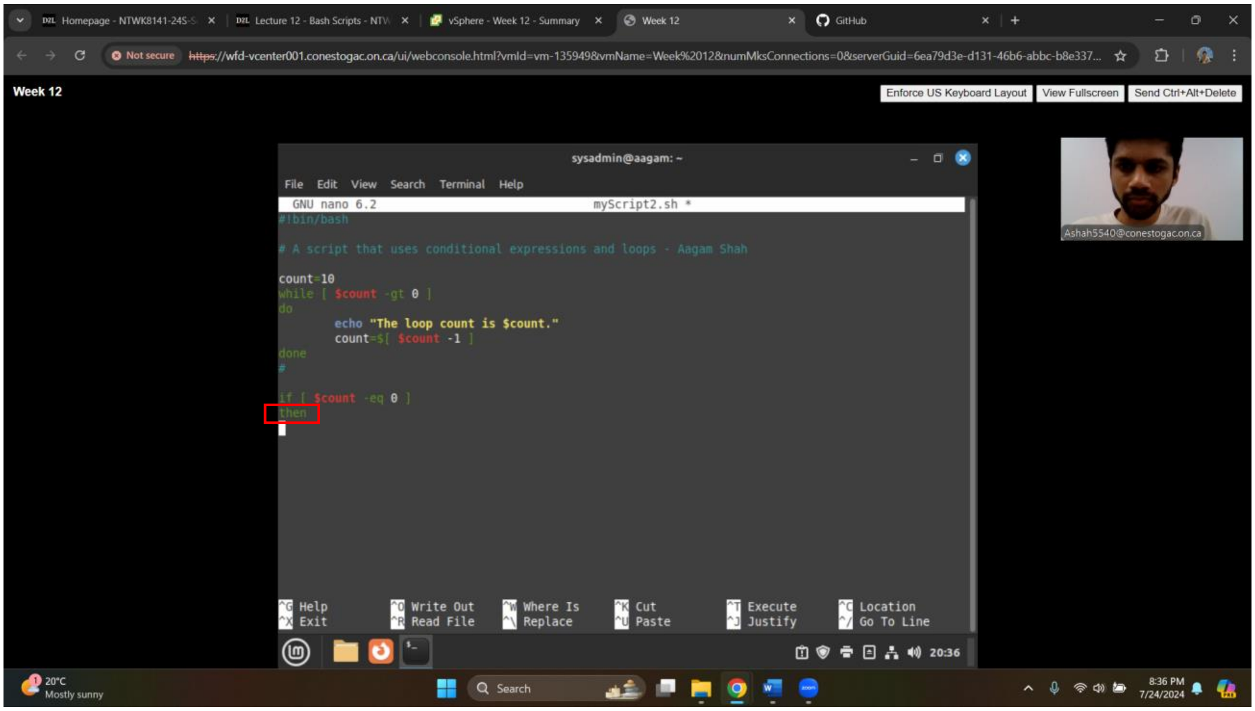
```
^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

12. **On the file's next line, start adding a conditional expression by typing if [$count -eq 0] and pressing Enter.**



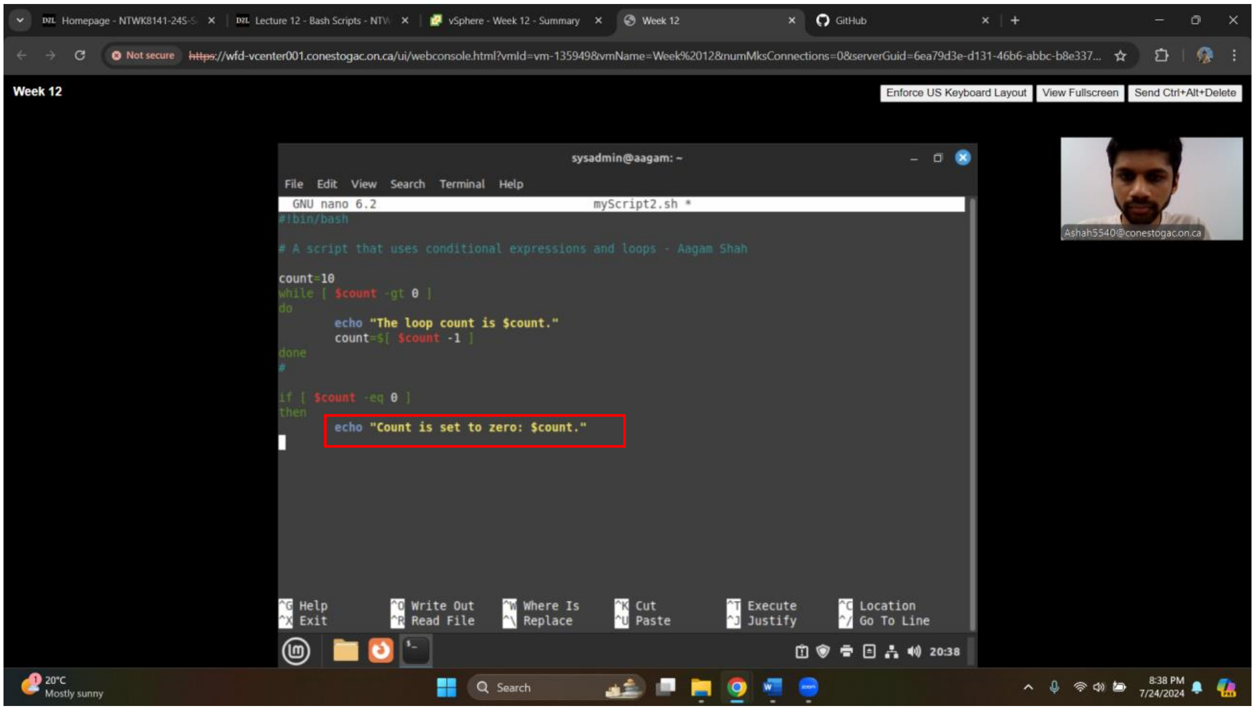
```
  GNU nano 6.2                        myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]

^G Help      ^O Write Out  ^W Where Is  ^K Cut    ^T Execute  ^C Location
^X Exit      ^R Read File  ^\ Replace   ^U Paste  ^J Justify  ^/ Go To Line
```

13. **Type then and press Enter.**



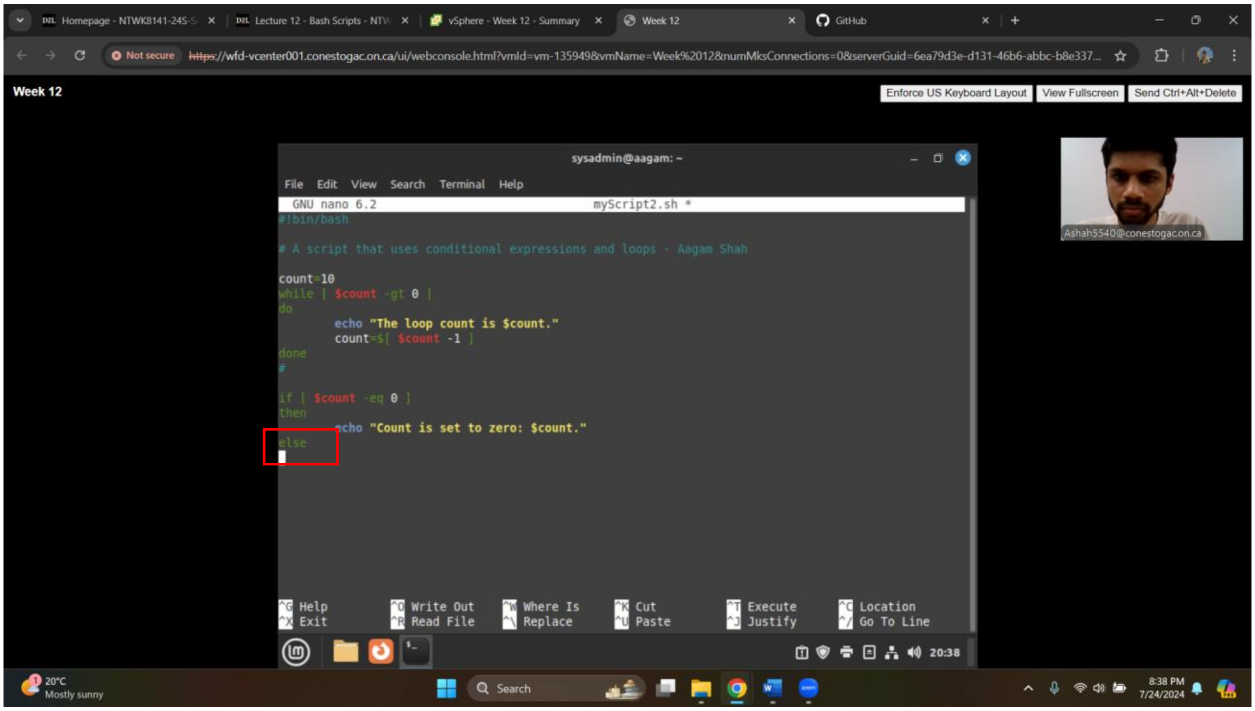
```
  GNU nano 6.2                        myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then

^G Help      ^O Write Out  ^W Where Is  ^K Cut    ^T Execute  ^C Location
^X Exit      ^R Read File  ^\ Replace   ^U Paste  ^J Justify  ^/ Go To Line
```

14. Add a command to execute, if the test returns a zero exit status (true), by pressing Tab, typing echo "Count is set to zero: $count", and pressing Enter.



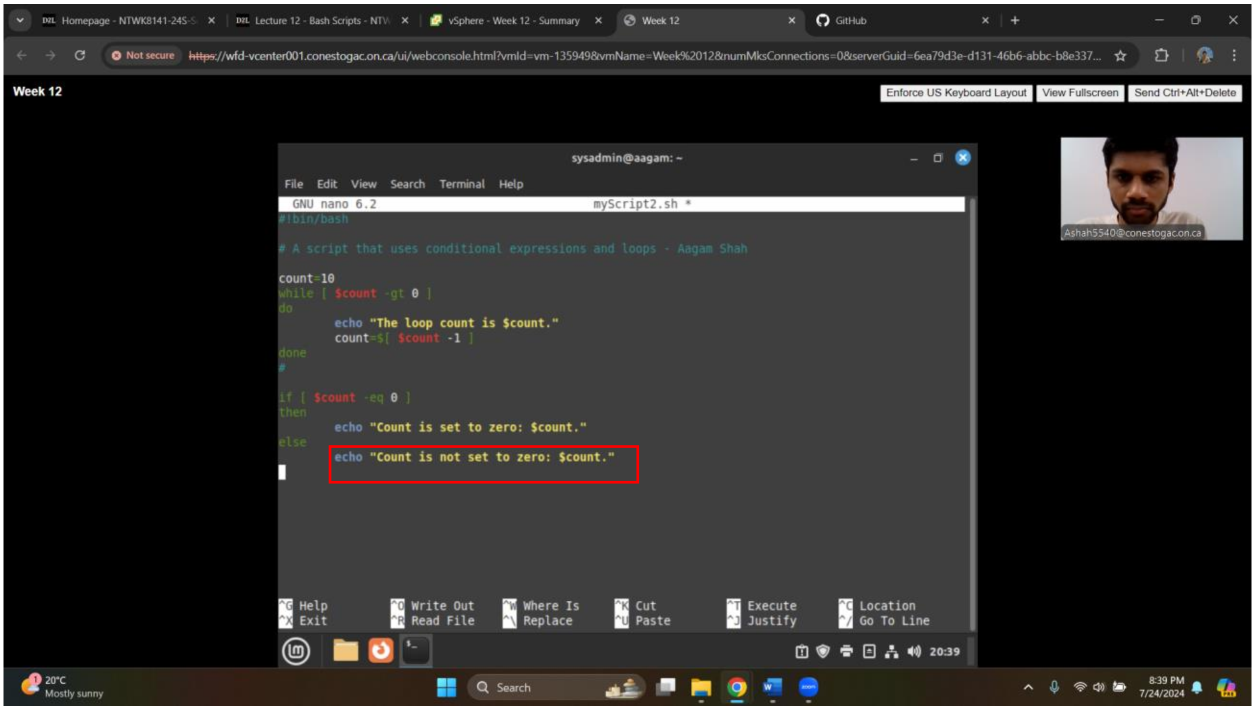
```
#!/bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
```

15. Type else and press Enter.



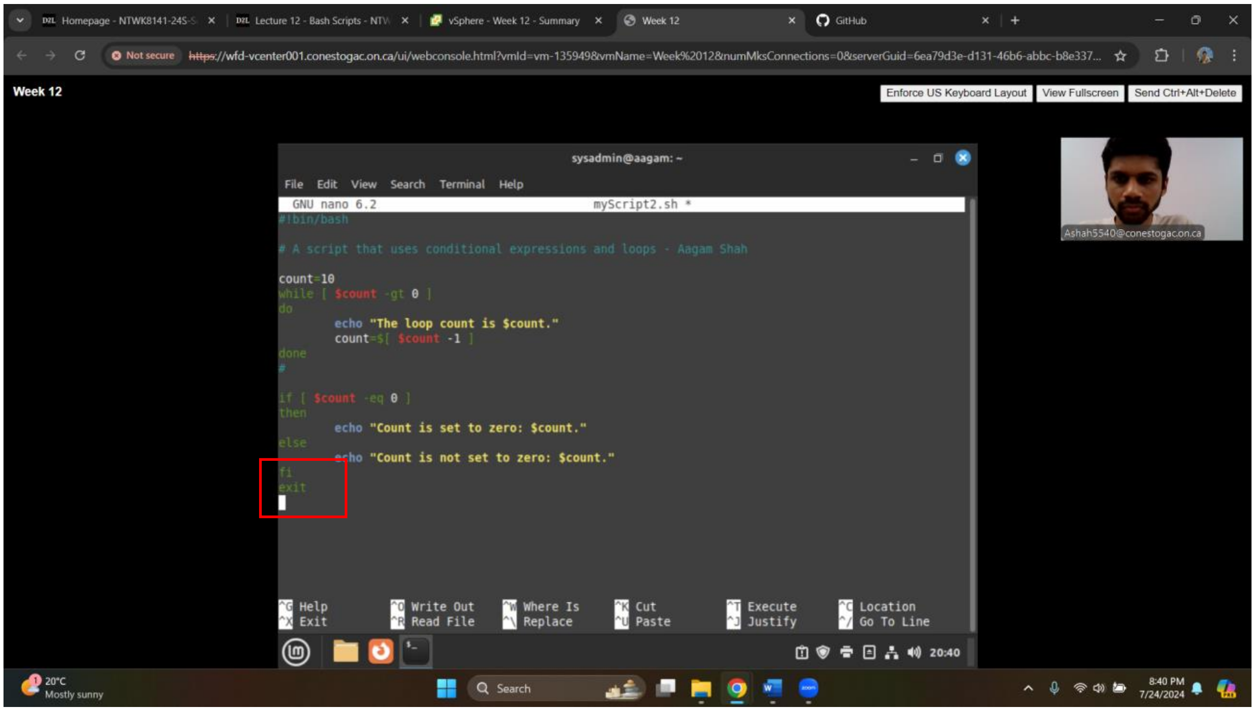
```
#!/bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
```

16. **Add a command to execute if the test returns a nonzero exit status (false), by pressing Tab, typing echo "Count is not set to zero: $count", and pressing Enter.**


Homepage - NTWK8141-24S-
Lecture 12 - Bash Scripts - NTW
vSphere - Week 12 - Summary
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca
20:39
20°C
Mostly sunny
Search
8:39 PM
7/24/2024

```
  GNU nano 6.2                     myScript2.sh *
#!/bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
        echo "Count is not set to zero: $count."


^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

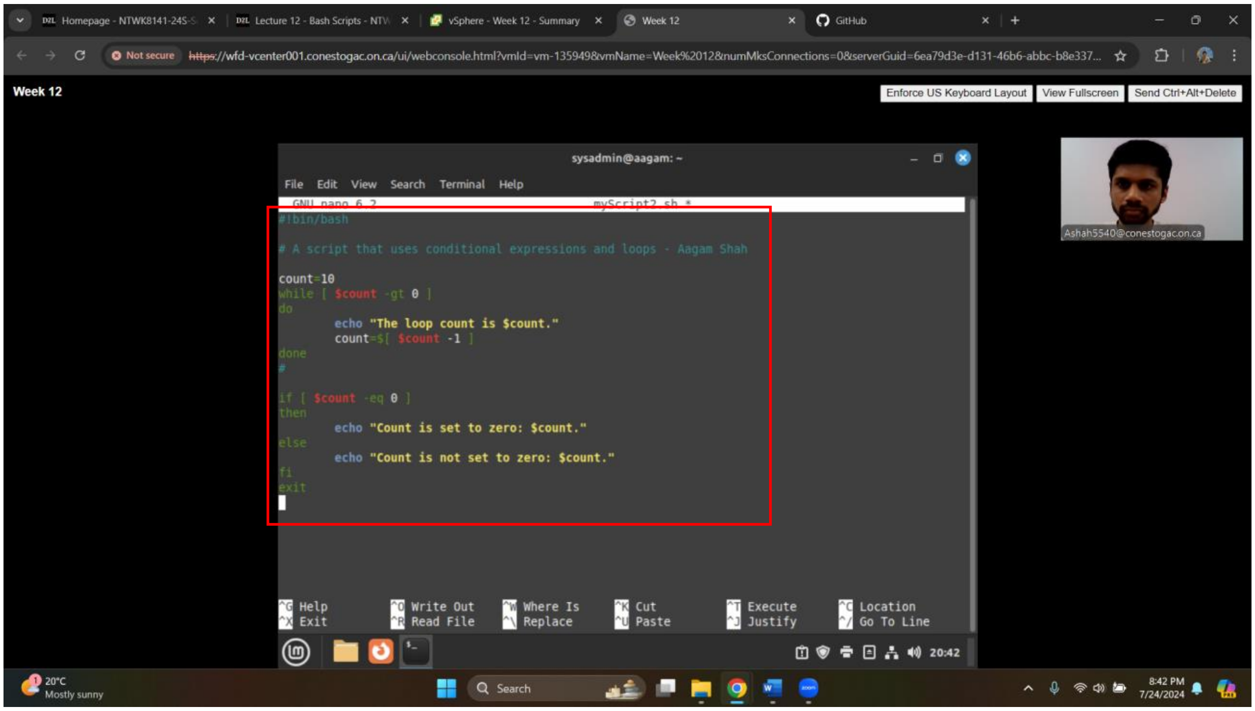
17. **On the file's last line, type exit.**


Homepage - NTWK8141-24S-
Lecture 12 - Bash Scripts - NTW
vSphere - Week 12 - Summary
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca
20:40
20°C
Mostly sunny
Search
8:40 PM
7/24/2024

```
  GNU nano 6.2                     myScript2.sh *
#!/bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
        echo "Count is not set to zero: $count."
fi
exit


^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line
```

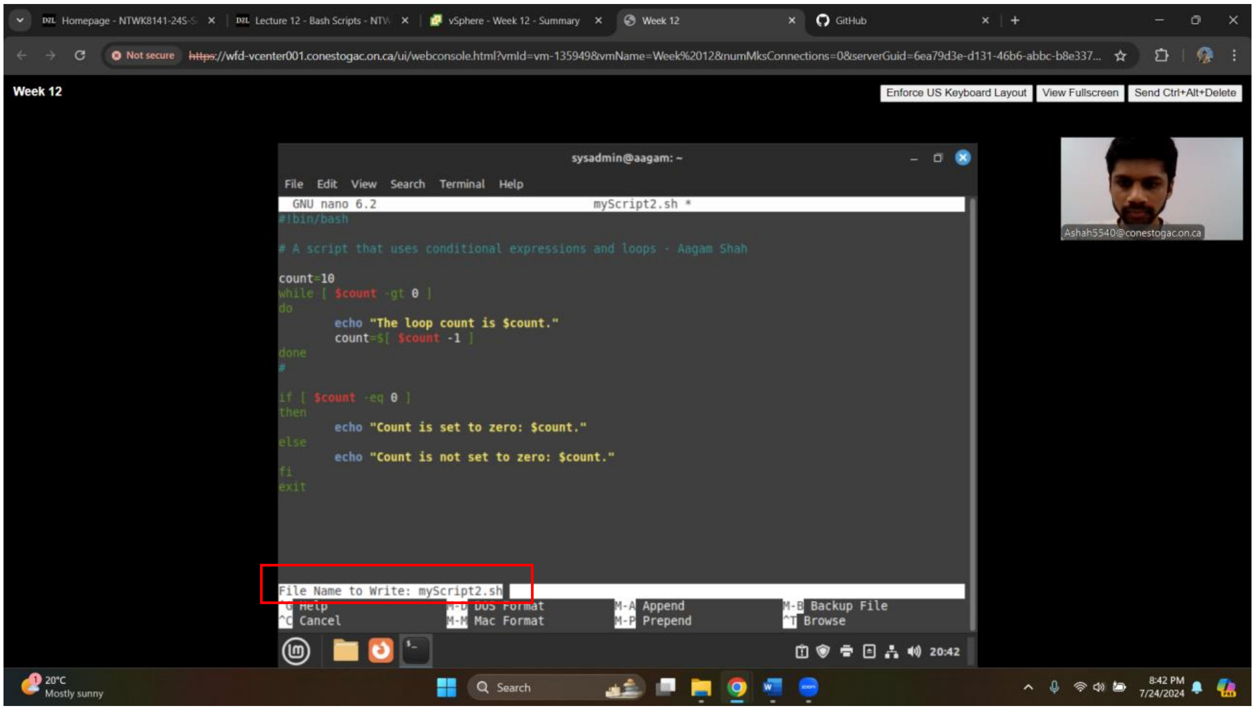
18. **Before saving your shell script file, review the following code and make sure your code is the same (though your comment lines do not have to match). Make any needed changes.**

```
#!/bin/bash
# A script that uses conditional expressions and loops
count=10
while [ $count -gt 0 ]
do
	echo “The loop count is $count.”
	count=$[ $count - 1 ]
done
#
if [ $count -eq 0 ]
then
	echo "Count is set to zero: $count"
else
	echo "Count is not set to zero: $count"
fi
exit
```


Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 12 - Summary
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File
Edit
View
Search
Terminal
Help
Ashah5540@conestogac.on.ca
20:42
20°C
Mostly sunny
Search
8:42 PM
7/24/2024

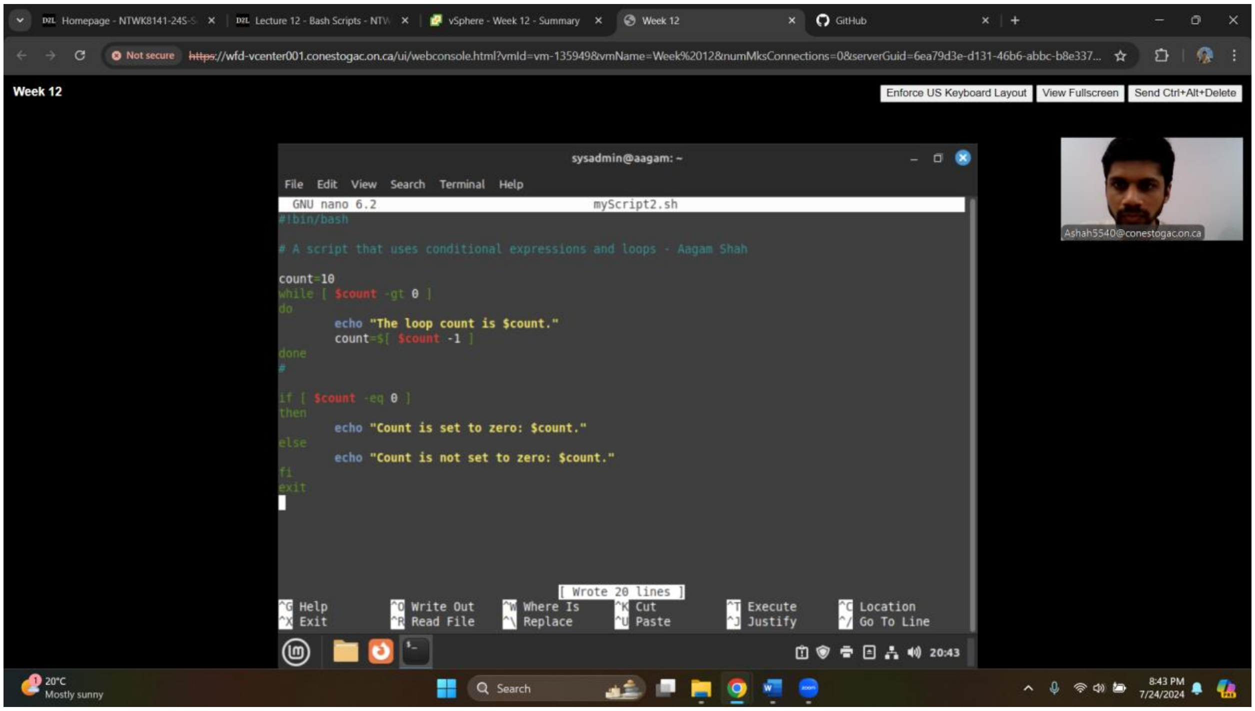
```
  GNU nano 6.2                              myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
        echo "Count is not set to zero: $count."
fi
exit


^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line
```

19. **Save the entered text to the script file by pressing Ctrl+O and pressing Enter when the file's name displays on the text editor's status line.**

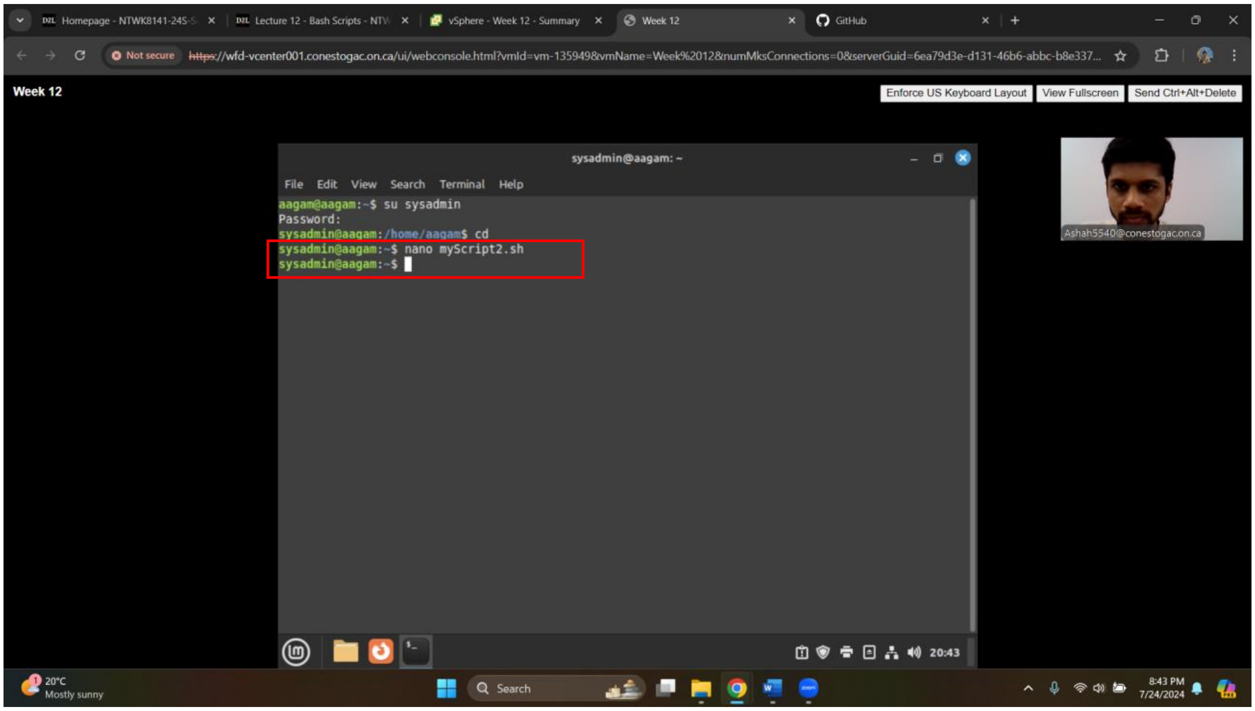


```
  GNU nano 6.2                    myScript2.sh *
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
        echo "Count is not set to zero: $count."
fi
exit




File Name to Write: myScript2.sh
^G Help          M-D DOS Format     M-A Append         M-B Backup File
^C Cancel        M-M Mac Format     M-P Prepend        ^T Browse
```

20. **Exit the nano text editor by pressing Ctrl+X.**



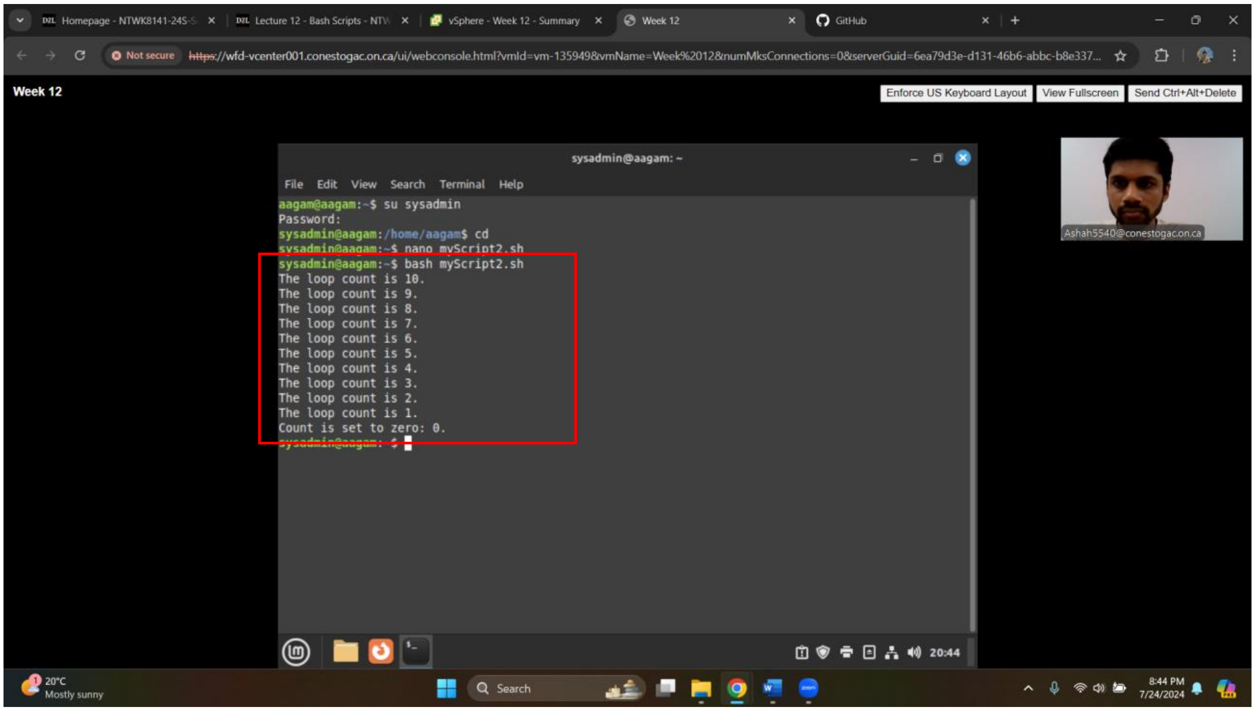
```
  GNU nano 6.2                    myScript2.sh
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
while [ $count -gt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
        echo "Count is not set to zero: $count."
fi
exit




                                 [ Wrote 20 lines ]
^G Help       ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location
^X Exit       ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line
```



Homepage - NTWK8141-24S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 12 - Summary
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File
Edit
View
Search
Terminal
Help
Ashah5540@conestogac.on.ca
20:43
20°C
Mostly sunny
Search
8:43 PM
7/24/2024

```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ cd
sysadmin@aagam:~$ nano myScript2.sh
sysadmin@aagam:~$ 
```

21. Try running the script by typing bash myScript2.sh and pressing Enter.



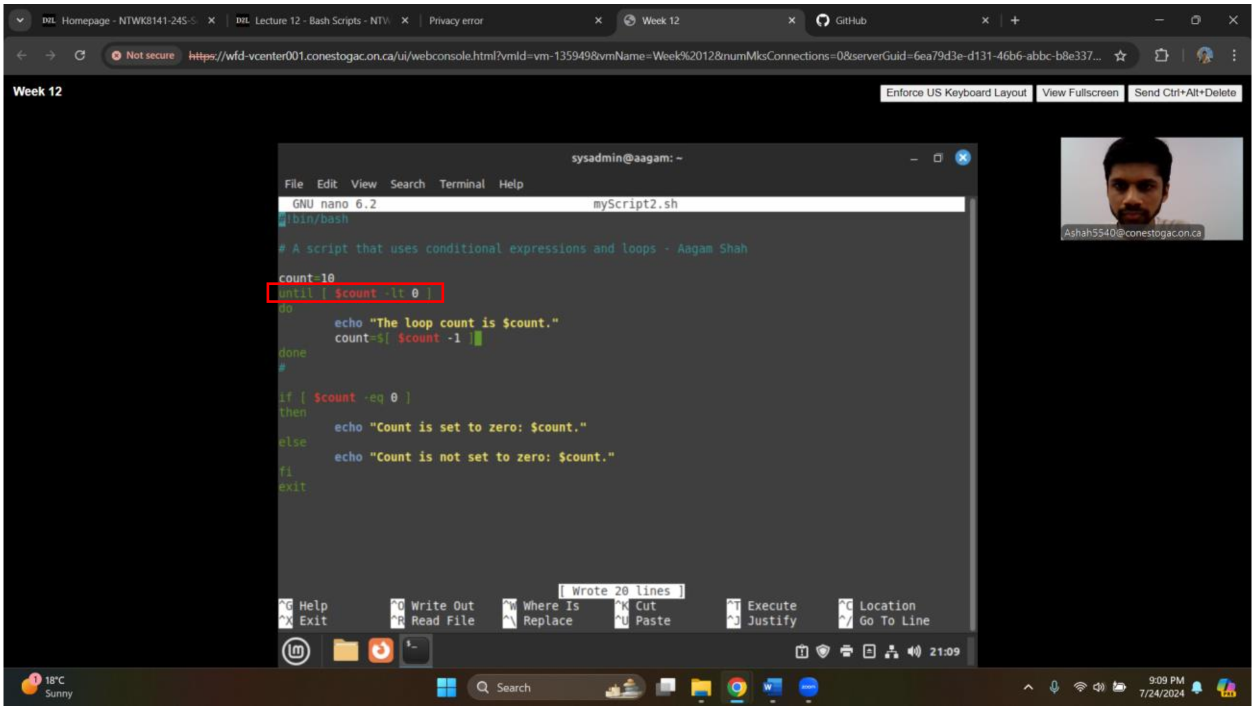
Homepage - NTWK8141-24S
Lecture 12 - Bash Scripts - NTW
vSphere - Week 12 - Summary
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File
Edit
View
Search
Terminal
Help
Ashah5540@conestogac.on.ca
20:44
20°C
Mostly sunny
Search
8:44 PM
7/24/2024

```
aagam@aagam:~$ su sysadmin
Password:
sysadmin@aagam:/home/aagam$ cd
sysadmin@aagam:~$ nano myScript2.sh
sysadmin@aagam:~$ bash myScript2.sh
The loop count is 10.
The loop count is 9.
The loop count is 8.
The loop count is 7.
The loop count is 6.
The loop count is 5.
The loop count is 4.
The loop count is 3.
The loop count is 2.
The loop count is 1.
Count is set to zero: 0.
sysadmin@aagam:~$ 
```

22. If the script did not run successfully, go back and edit the file, making any needed corrections.

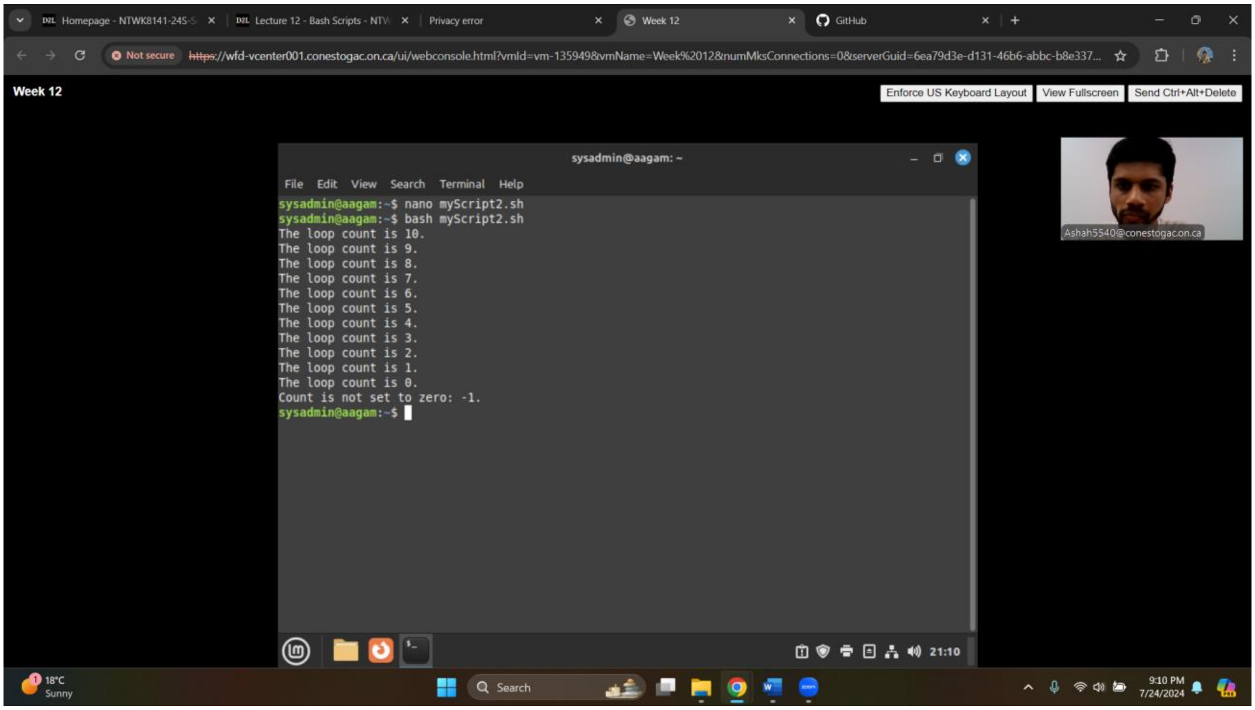
➔ Script is running successfully. No need to change the file.

23. **Once you have the script running correctly, try turning your while loop into an until loop, making changes to the count variable's original definition and math expression as needed.**



Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
Privacy error
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca
21:09
18°C
Sunny
Search
9:09 PM
7/24/2024

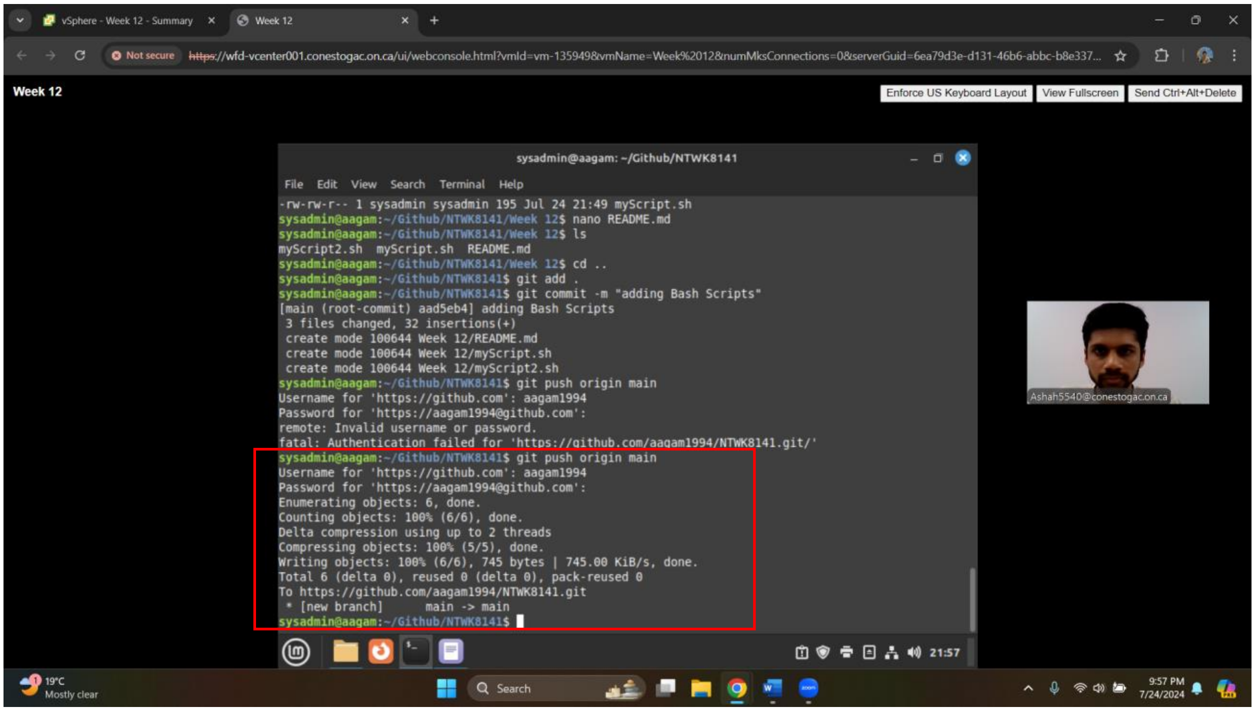
```
  GNU nano 6.2                          myScript2.sh
#!bin/bash

# A script that uses conditional expressions and loops - Aagam Shah

count=10
until [ $count -lt 0 ]
do
        echo "The loop count is $count."
        count=$[ $count -1 ]
done
#

if [ $count -eq 0 ]
then
        echo "Count is set to zero: $count."
else
        echo "Count is not set to zero: $count."
fi
exit



                                        [ Wrote 20 lines ]
^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line
```



Homepage - NTWK8141-24S-S
Lecture 12 - Bash Scripts - NTW
Privacy error
Week 12
GitHub
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-135949&vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~
File Edit View Search Terminal Help
Ashah5540@conestogac.on.ca
21:10
18°C
Sunny
Search
9:10 PM
7/24/2024

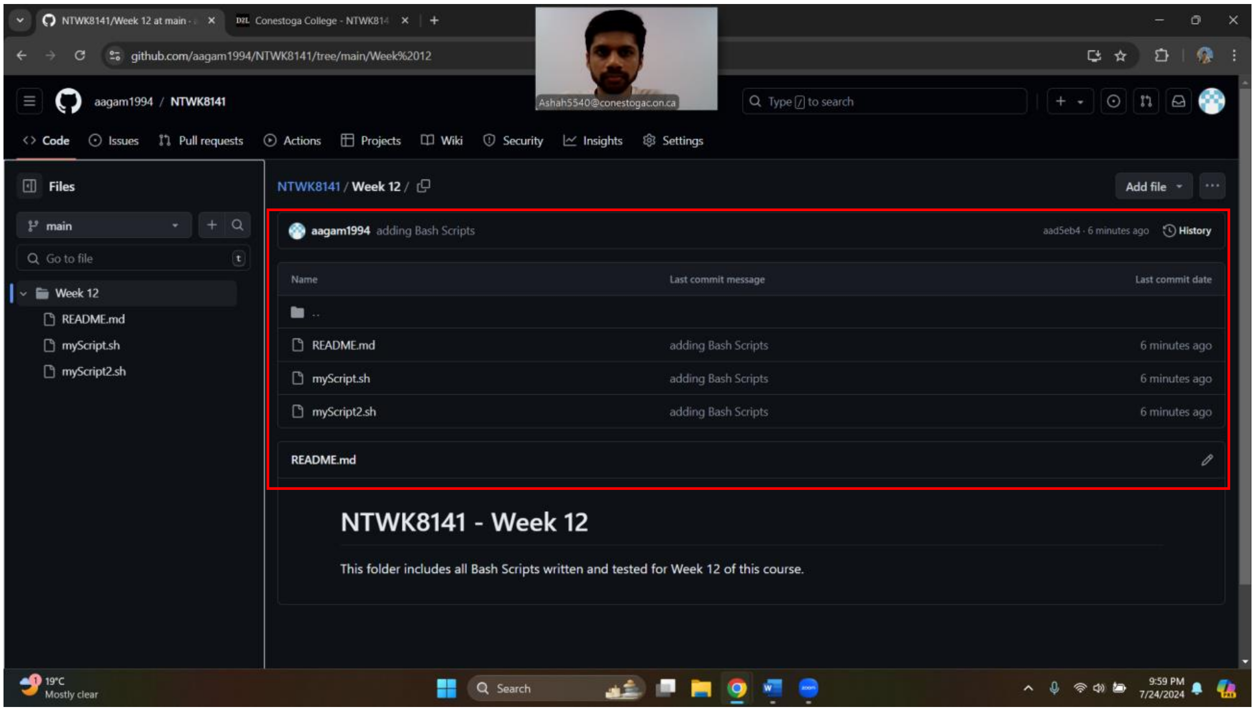
```
sysadmin@aagam:~$ nano myScript2.sh
sysadmin@aagam:~$ bash myScript2.sh
The loop count is 10.
The loop count is 9.
The loop count is 8.
The loop count is 7.
The loop count is 6.
The loop count is 5.
The loop count is 4.
The loop count is 3.
The loop count is 2.
The loop count is 1.
The loop count is 0.
Count is not set to zero: -1.
sysadmin@aagam:~$ 
```

GITHUB


vSphere - Week 12 - Summary
Week 12
Not secure
https://wfd-vcenter001.conestogac.on.ca/ui/webconsole.html?vmId=vm-1359498vmName=Week%2012&numMksConnections=0&serverGuid=6ea79d3e-d131-46b6-abbc-b8e337...
Week 12
Enforce US Keyboard Layout
View Fullscreen
Send Ctrl+Alt+Delete
sysadmin@aagam: ~/Github/NTWK8141
File
Edit
View
Search
Terminal
Help
Ashah5540@conestogac.on.ca
21:57
19°C
Mostly clear
Search
9:57 PM
7/24/2024

```
-rw-rw-r-- 1 sysadmin sysadmin 195 Jul 24 21:49 myScript.sh
sysadmin@aagam:~/Github/NTWK8141/Week 12$ nano README.md
sysadmin@aagam:~/Github/NTWK8141/Week 12$ ls
myScript2.sh  myScript.sh  README.md
sysadmin@aagam:~/Github/NTWK8141/Week 12$ cd ..
sysadmin@aagam:~/Github/NTWK8141$ git add .
sysadmin@aagam:~/Github/NTWK8141$ git commit -m "adding Bash Scripts"
[main (root-commit) aad5eb4] adding Bash Scripts
 3 files changed, 32 insertions(+)
 create mode 100644 Week 12/README.md
 create mode 100644 Week 12/myScript.sh
 create mode 100644 Week 12/myScript2.sh
sysadmin@aagam:~/Github/NTWK8141$ git push origin main
Username for 'https://github.com': aagam1994
Password for 'https://aagam1994@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/aagam1994/NTWK8141.git/'
sysadmin@aagam:~/Github/NTWK8141$ git push origin main
Username for 'https://github.com': aagam1994
Password for 'https://aagam1994@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 2 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 745 bytes | 745.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aagam1994/NTWK8141.git
 * [new branch]      main -> main
sysadmin@aagam:~/Github/NTWK8141$
```

Github Link: https://github.com/aagam1994/NTWK8141/tree/main/Week%2012



aagam1994 adding Bash Scripts — aad5eb4 · 6 minutes ago

Name	Last commit message	Last commit date
..		
README.md	adding Bash Scripts	6 minutes ago
myScript.sh	adding Bash Scripts	6 minutes ago
myScript2.sh	adding Bash Scripts	6 minutes ago

README.md

NTWK8141 - Week 12

This folder includes all Bash Scripts written and tested for Week 12 of this course.