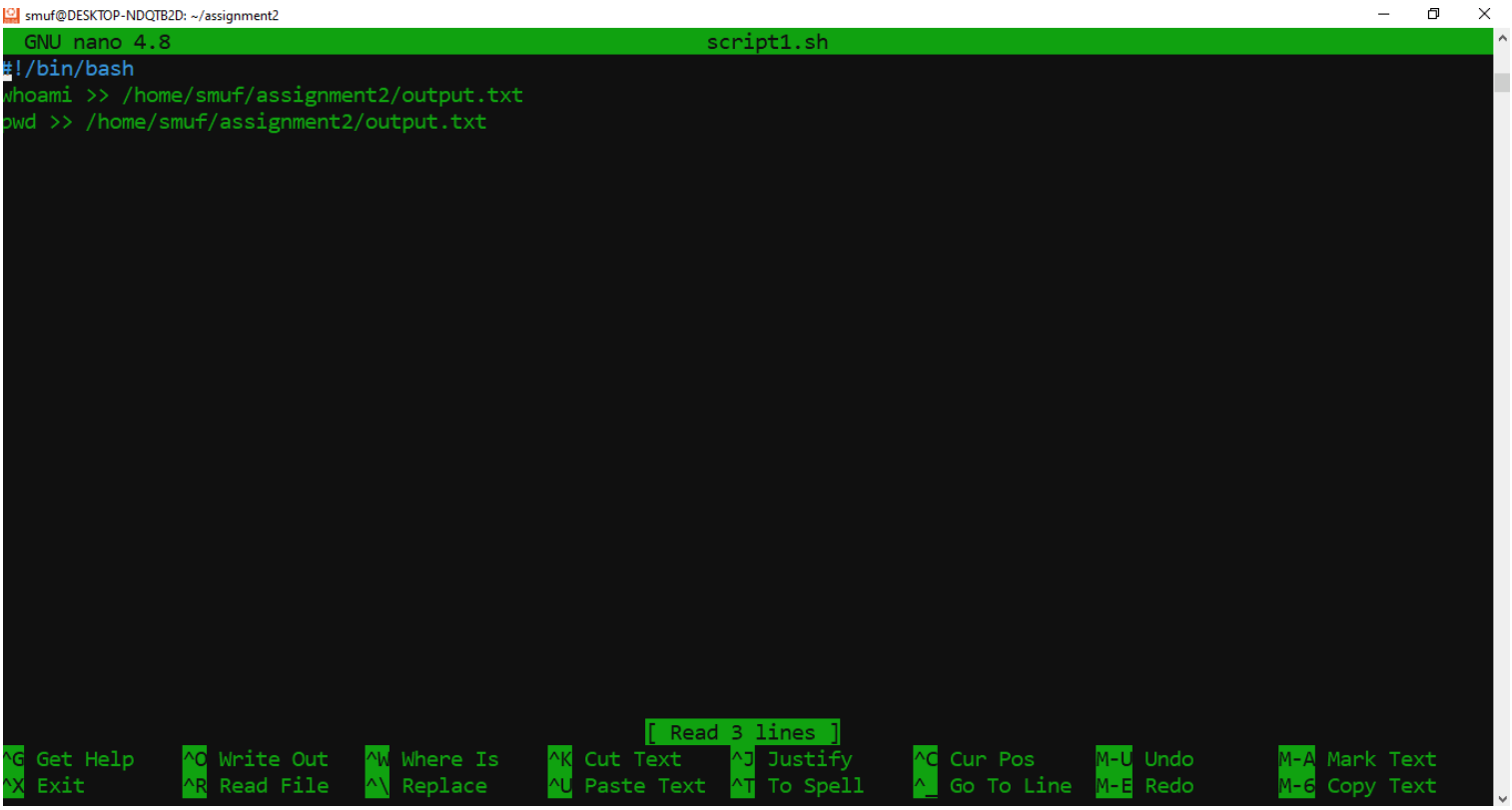
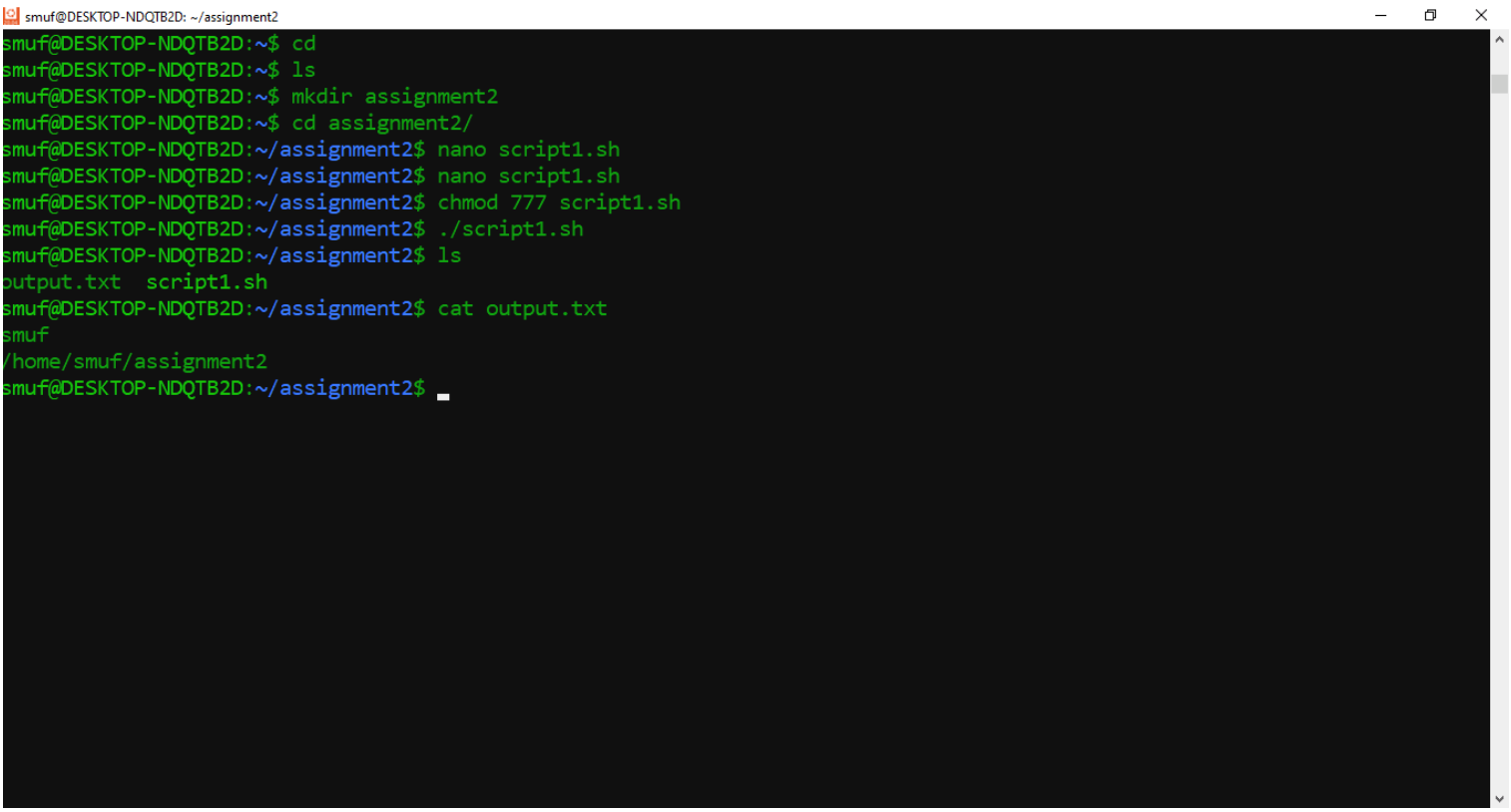
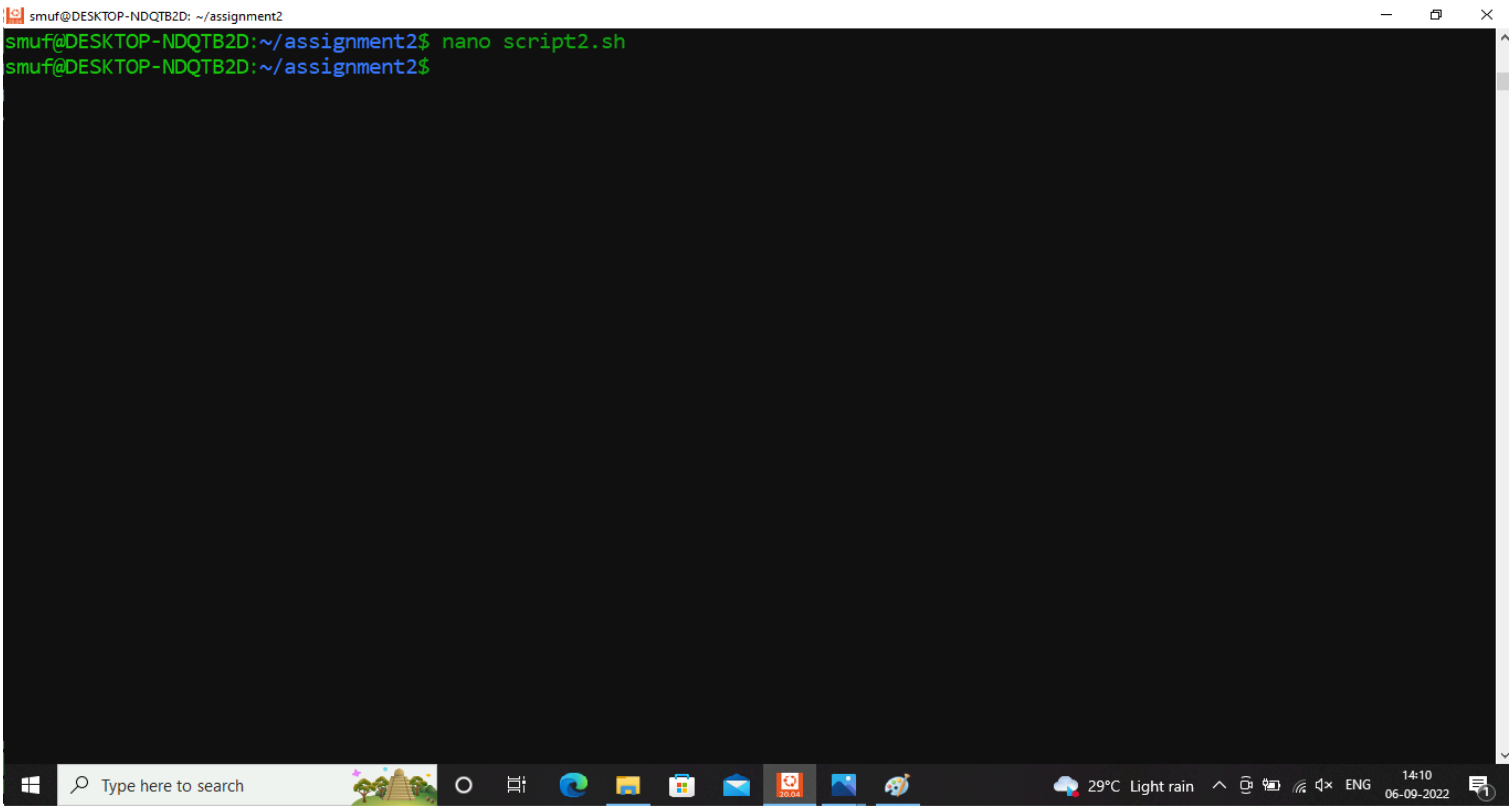
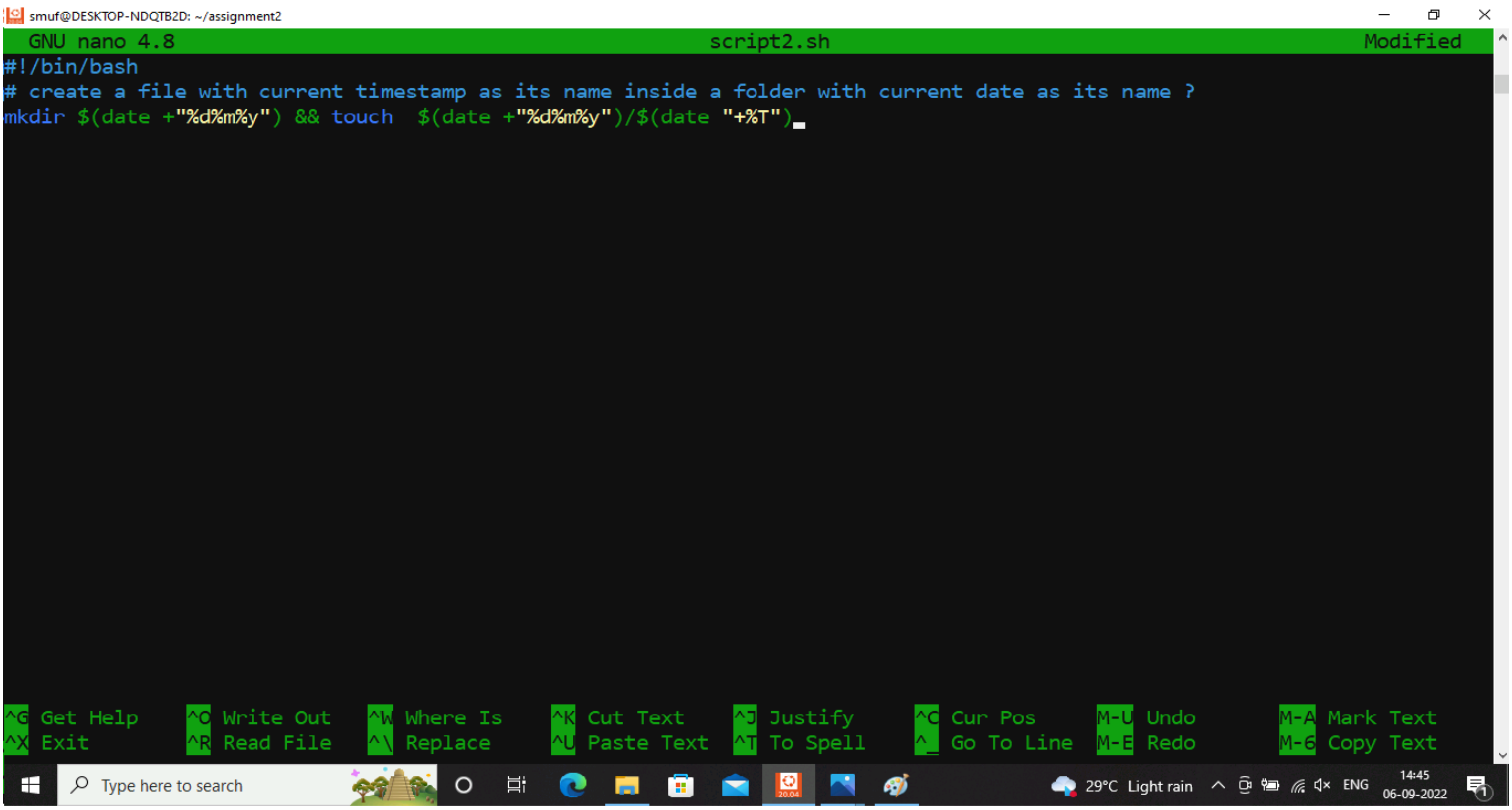
1. Write a script to print the current directory and username and redirect to a file called output.txt?

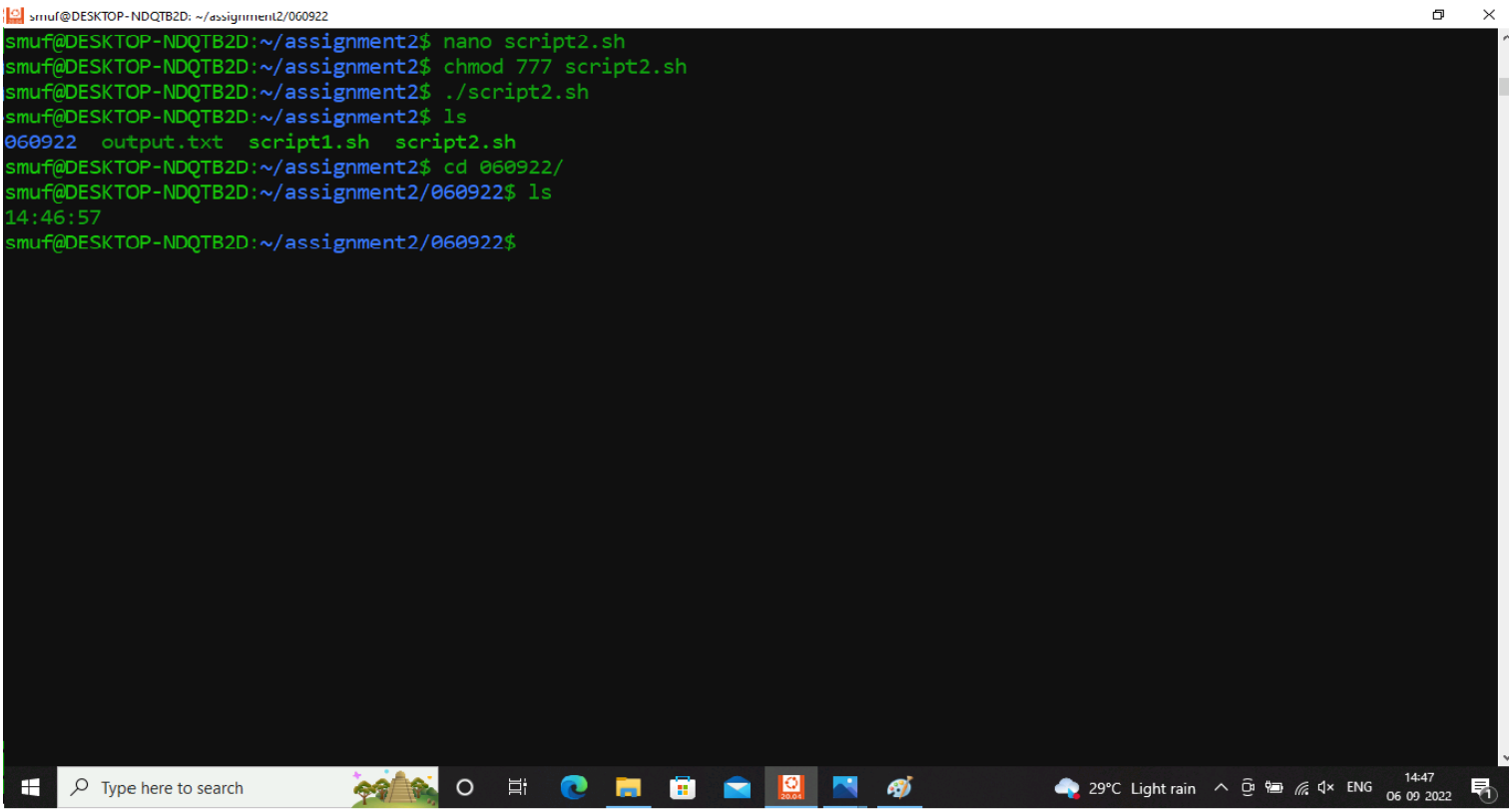

smuf@DESKTOP-NDQTB2D: ~/assignment2
GNU nano 4.8 script1.sh
#!/bin/bash
whoami >> /home/smuf/assignment2/output.txt
pwd >> /home/smuf/assignment2/output.txt
[Read 3 lines]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text

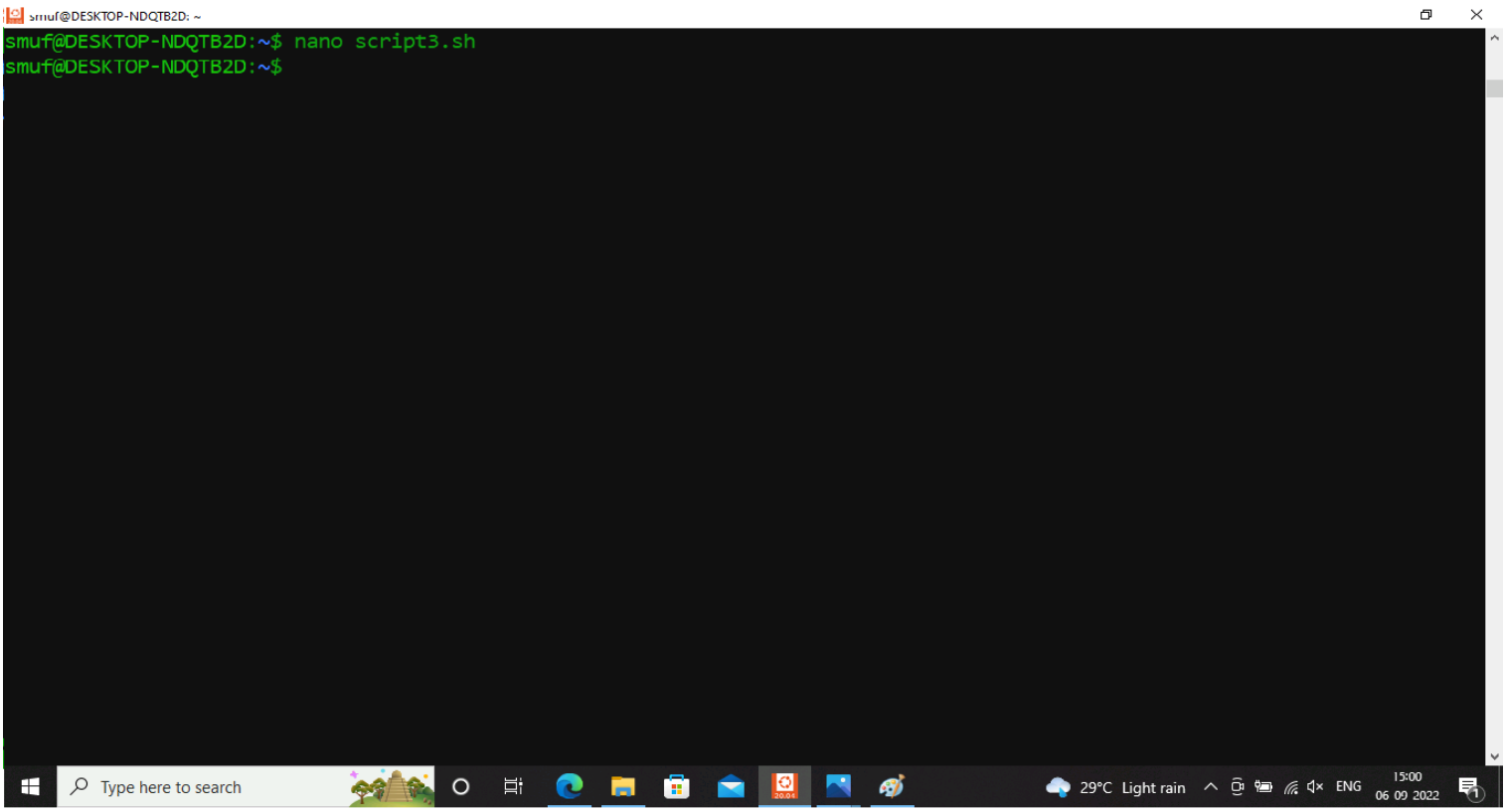

smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~$ cd
smuf@DESKTOP-NDQTB2D:~$ ls
smuf@DESKTOP-NDQTB2D:~$ mkdir assignment2
smuf@DESKTOP-NDQTB2D:~$ cd assignment2/
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script1.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script1.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script1.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script1.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
output.txt script1.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ cat output.txt
smuf
/home/smuf/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$

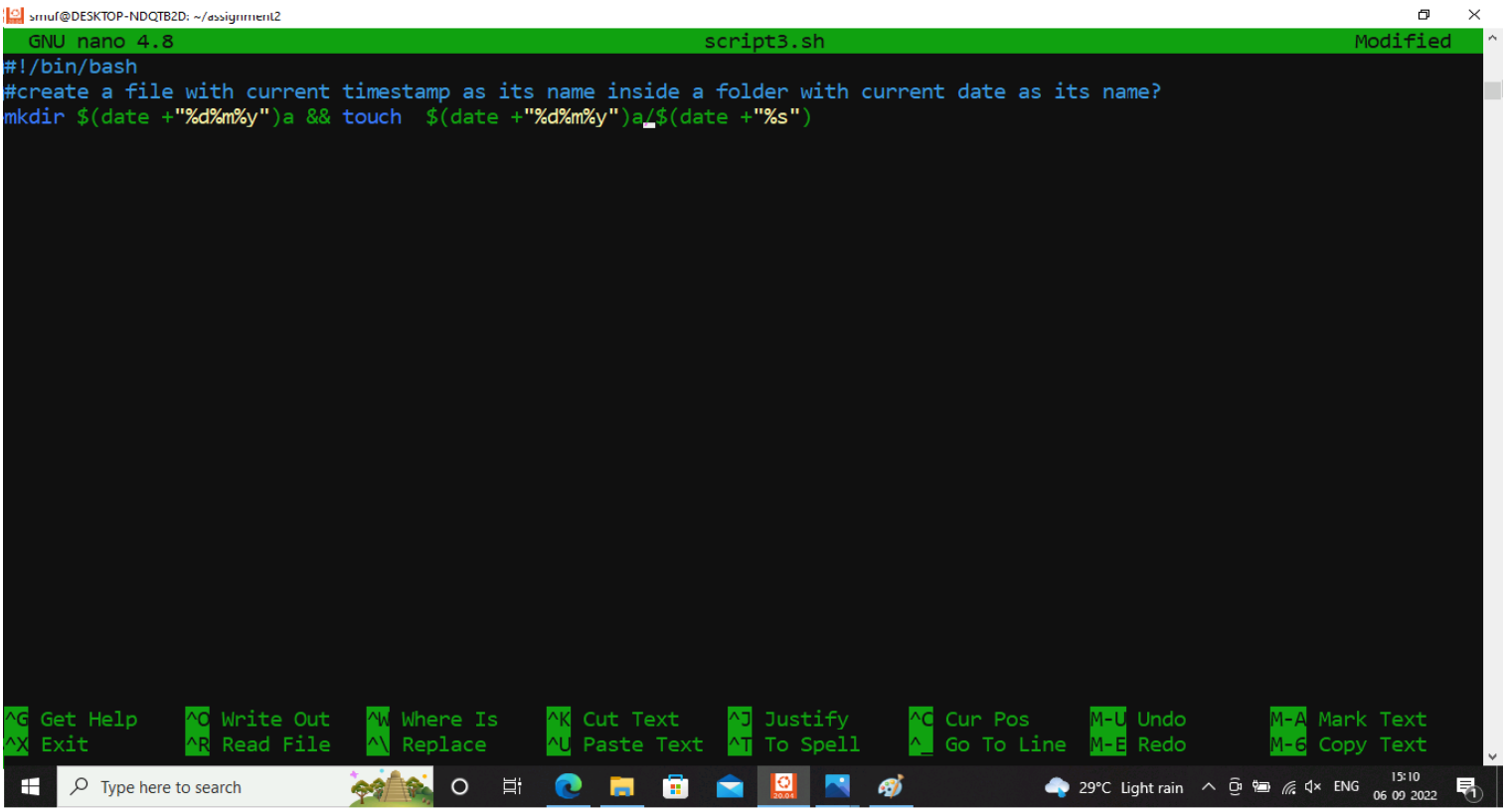
2. Create a file with current timestamp as its name inside a folder with current date as its name?

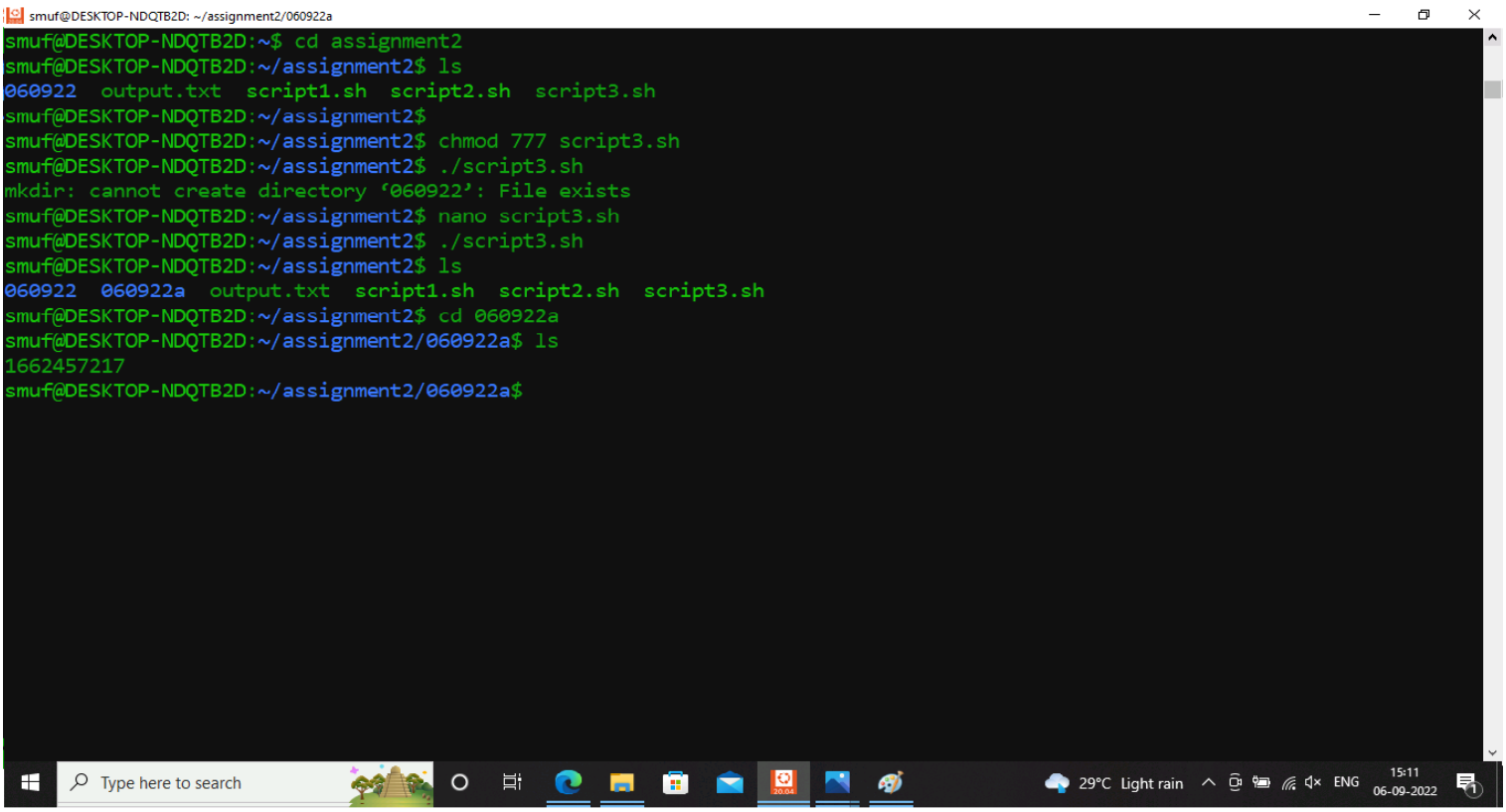

smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script2.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$
Type here to search
29°C Light rain
ENG
14:10
06-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2
GNU nano 4.8 script2.sh Modified
#!/bin/bash
create a file with current timestamp as its name inside a folder with current date as its name ?
mkdir $(date +"%d%m%y") && touch $(date +"%d%m%y")/$(date "+%T")
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text
Type here to search
29°C Light rain
ENG
14:45
06-09-2022

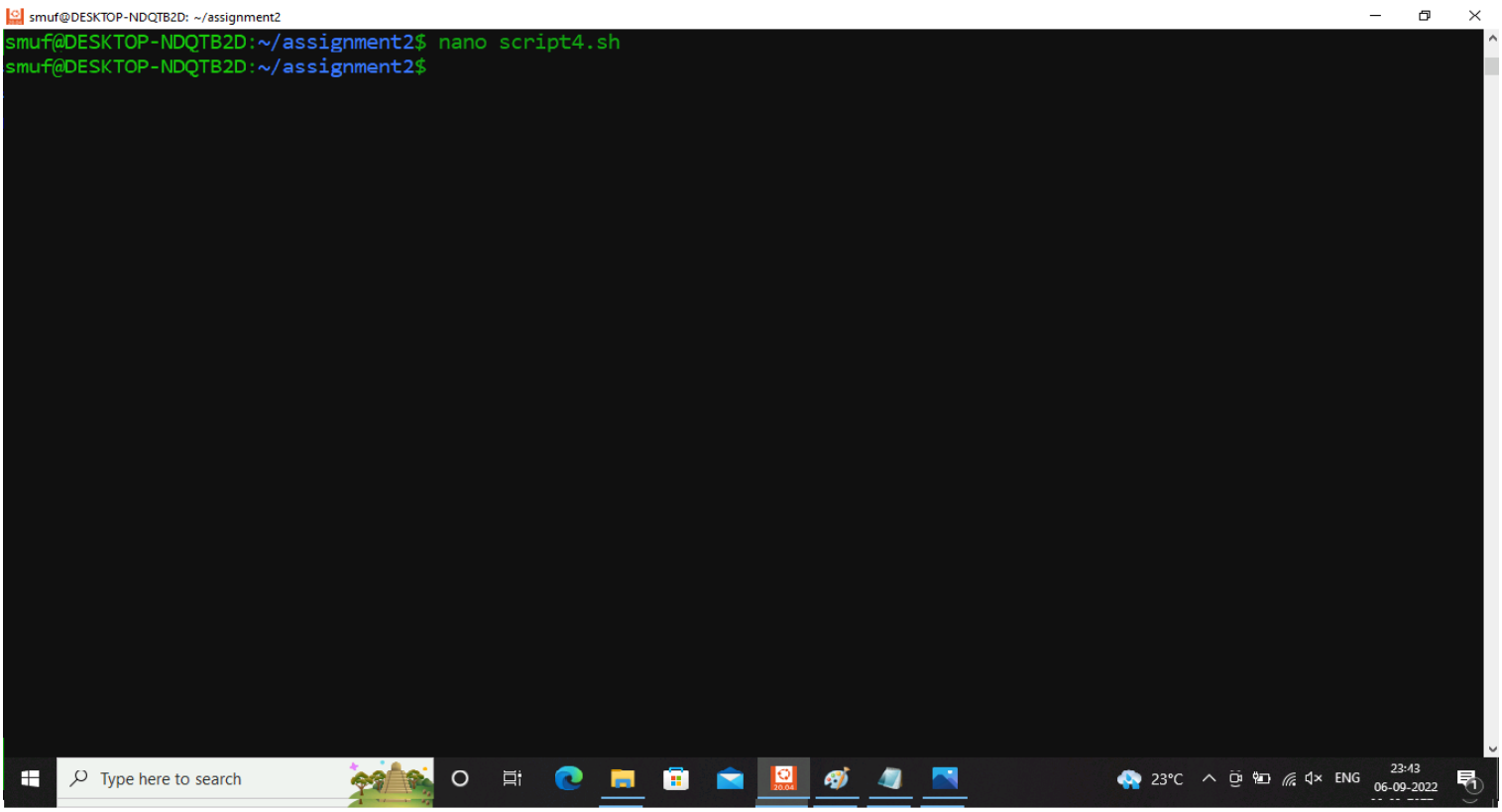

smuf@DESKTOP-NDQTB2D: ~/assignment2/060922
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script2.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script2.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script2.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 output.txt script1.sh script2.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd 060922/
smuf@DESKTOP-NDQTB2D:~/assignment2/060922$ ls
14:46:57
smuf@DESKTOP-NDQTB2D:~/assignment2/060922$
Type here to search
29°C Light rain
ENG
14:47
06 09 2022

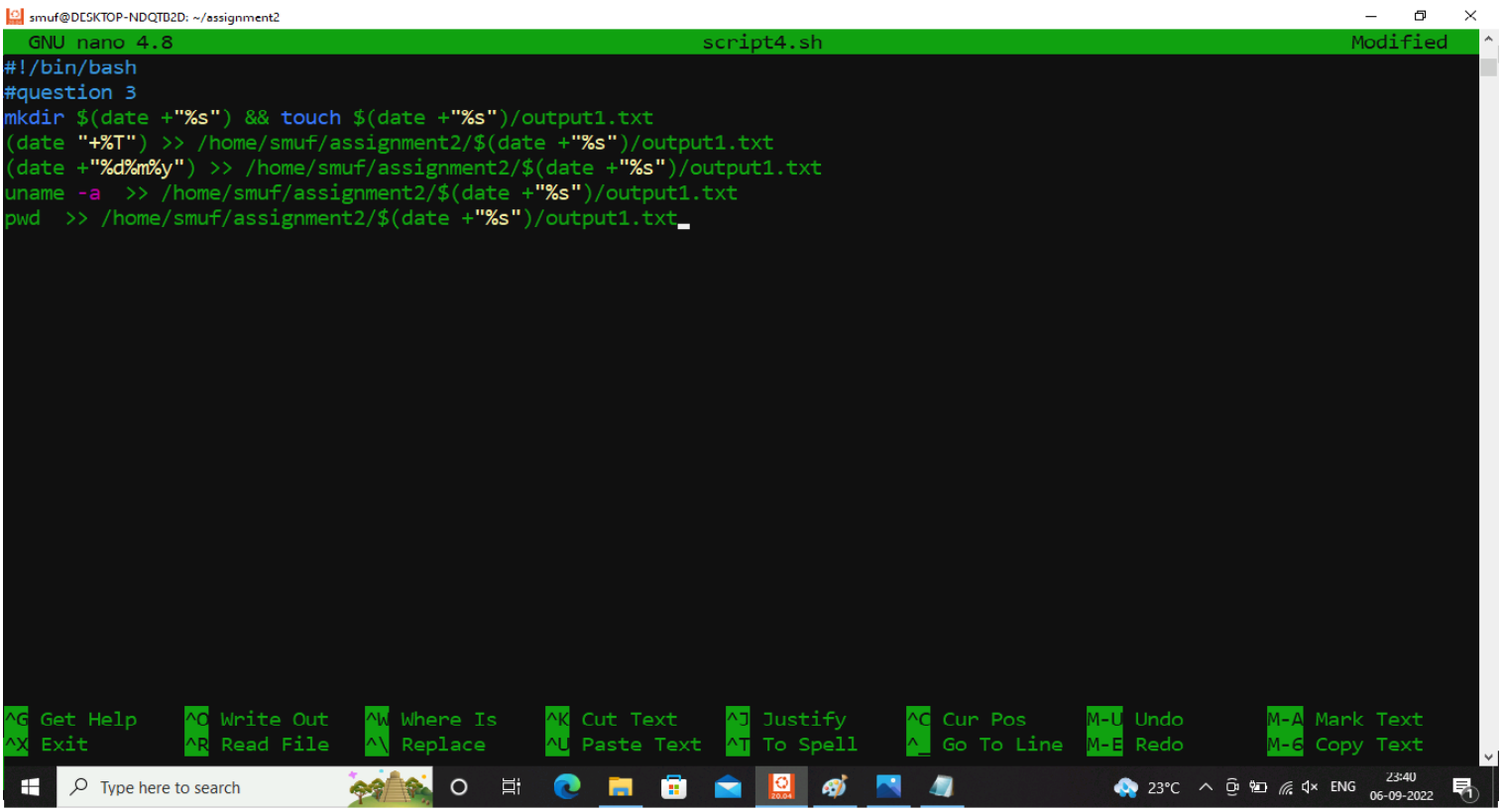

smuf@DESKTOP-NDQTB2D: ~
smuf@DESKTOP-NDQTB2D:~$ nano script3.sh
smuf@DESKTOP-NDQTB2D:~$
Type here to search
29°C Light rain
ENG
15:00
06 09 2022

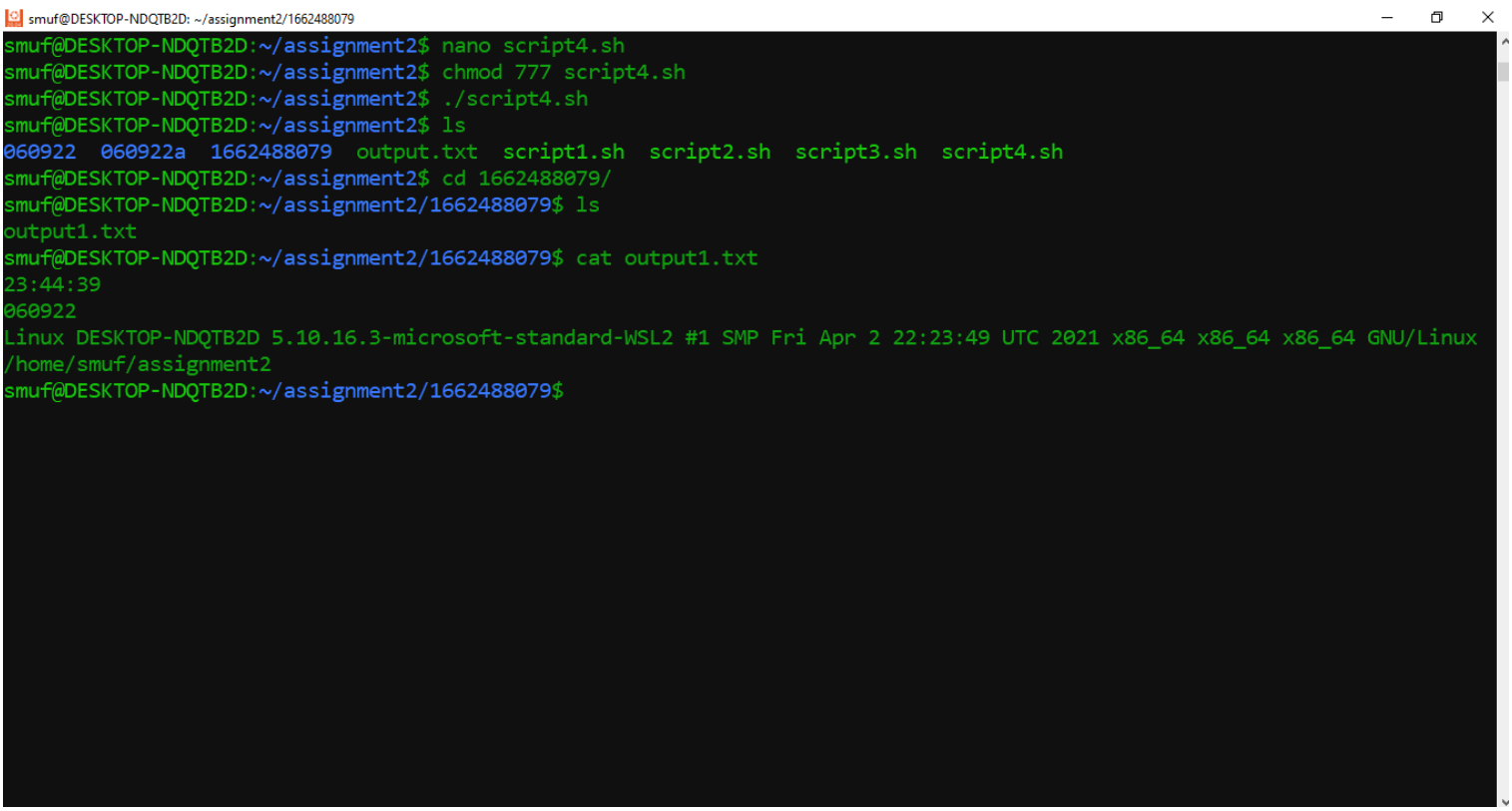

GNU nano 4.8
script3.sh
Modified
#!/bin/bash
#create a file with current timestamp as its name inside a folder with current date as its name?
mkdir $(date +"%d%m%y")a && touch $(date +"%d%m%y")a/$(date +"%s")
^G Get Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut Text
^U Paste Text
^J Justify
^T To Spell
^C Cur Pos
^_ Go To Line
M-U Undo
M-E Redo
M-A Mark Text
M-6 Copy Text
Type here to search
29°C Light rain
ENG
15:10
06 09 2022


smuf@DESKTOP-NDQTB2D: ~/assignment2/060922a
smuf@DESKTOP-NDQTB2D:~$ cd assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 output.txt script1.sh script2.sh script3.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script3.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script3.sh
mkdir: cannot create directory ‘060922’: File exists
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script3.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script3.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 060922a output.txt script1.sh script2.sh script3.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd 060922a
smuf@DESKTOP-NDQTB2D:~/assignment2/060922a$ ls
1662457217
smuf@DESKTOP-NDQTB2D:~/assignment2/060922a$
Type here to search
29°C Light rain
ENG
15:11
06-09-2022

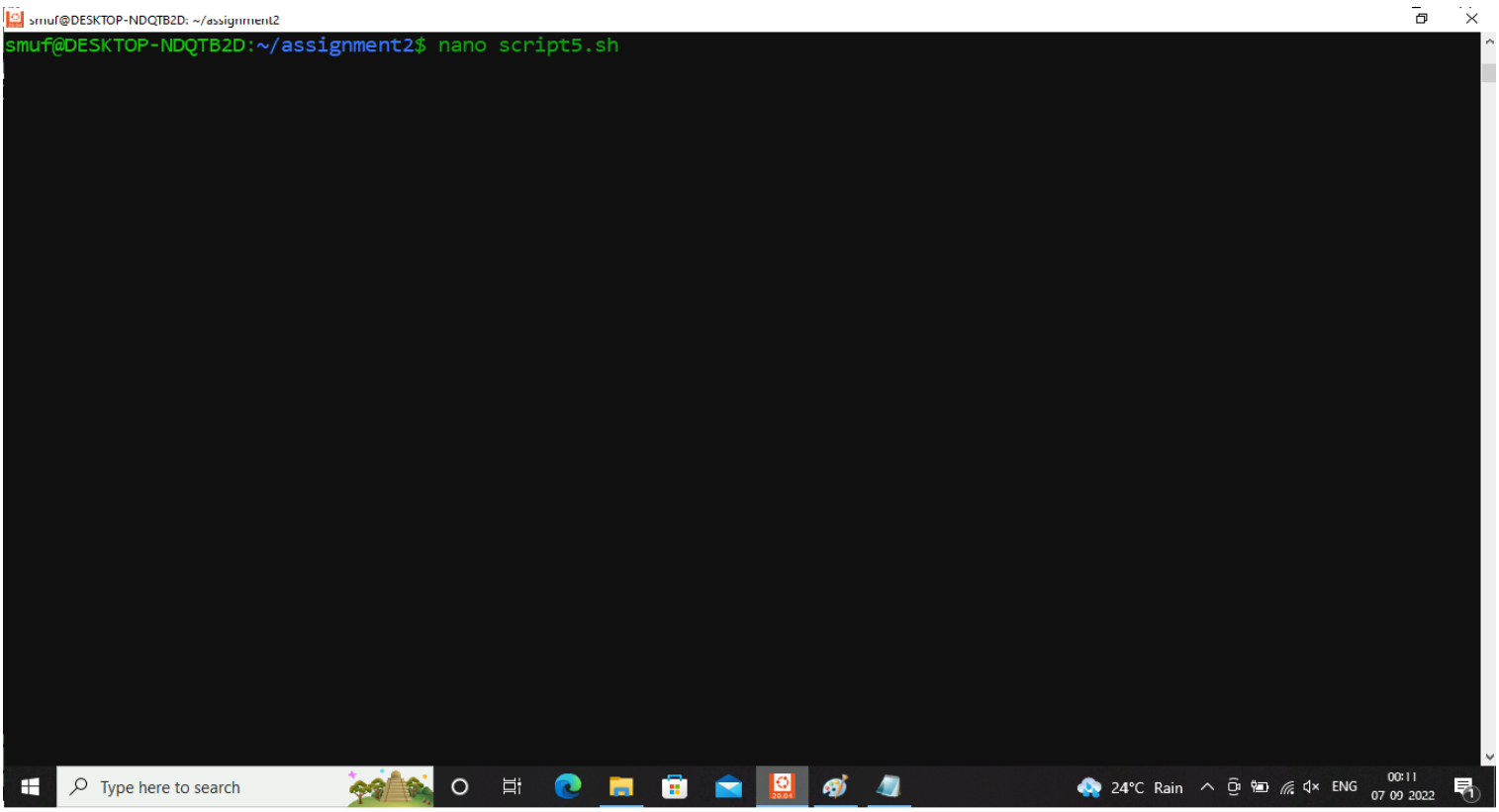
3. Create a bash script to print local time, date, username of your system and your current path and redirect the output into a file called output.txt. Insert output.txt into a new directory, where the directory name is the current timestamp.

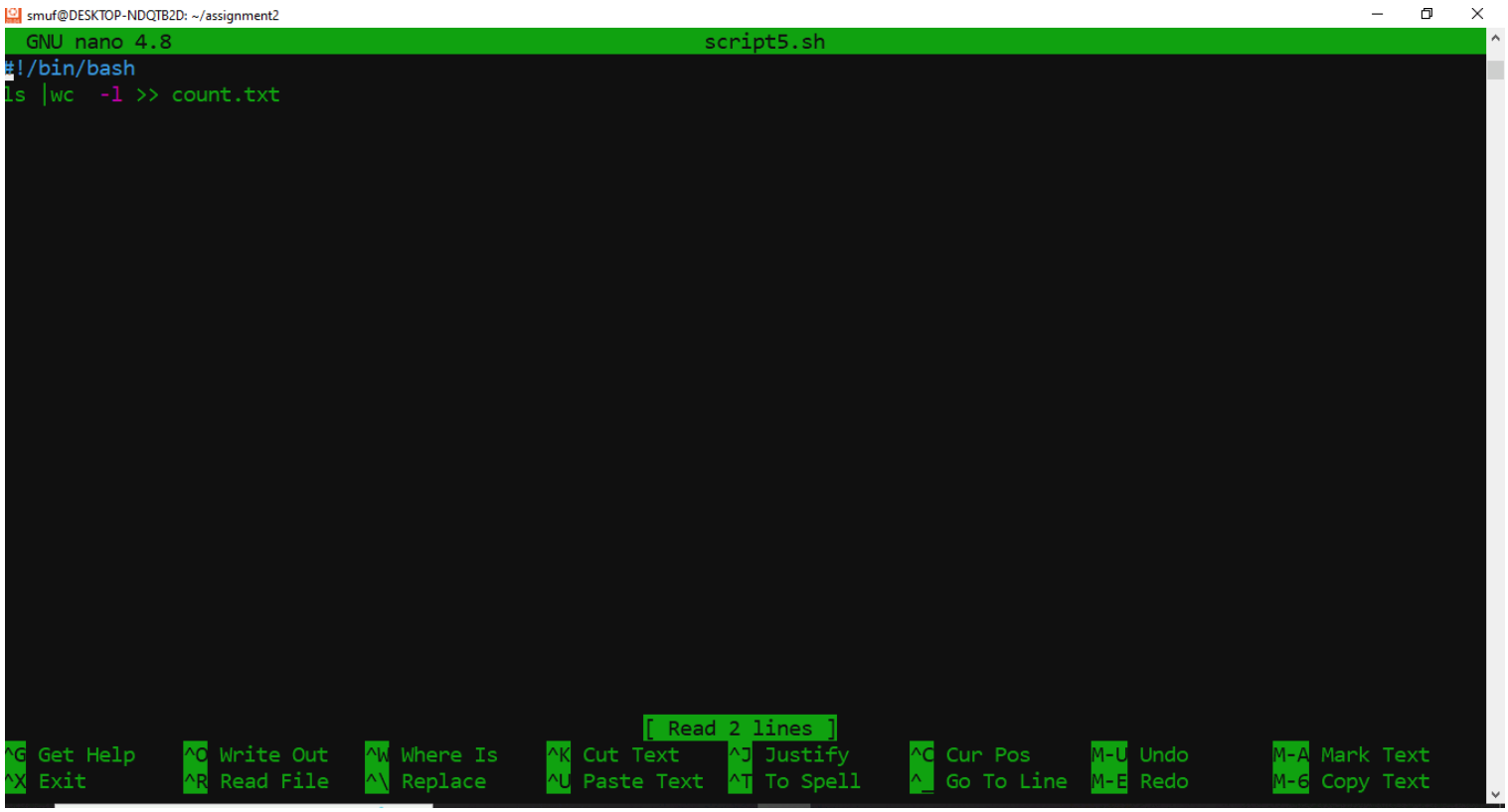

smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script4.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$
Type here to search
23°C
ENG
23:43
06-09-2022

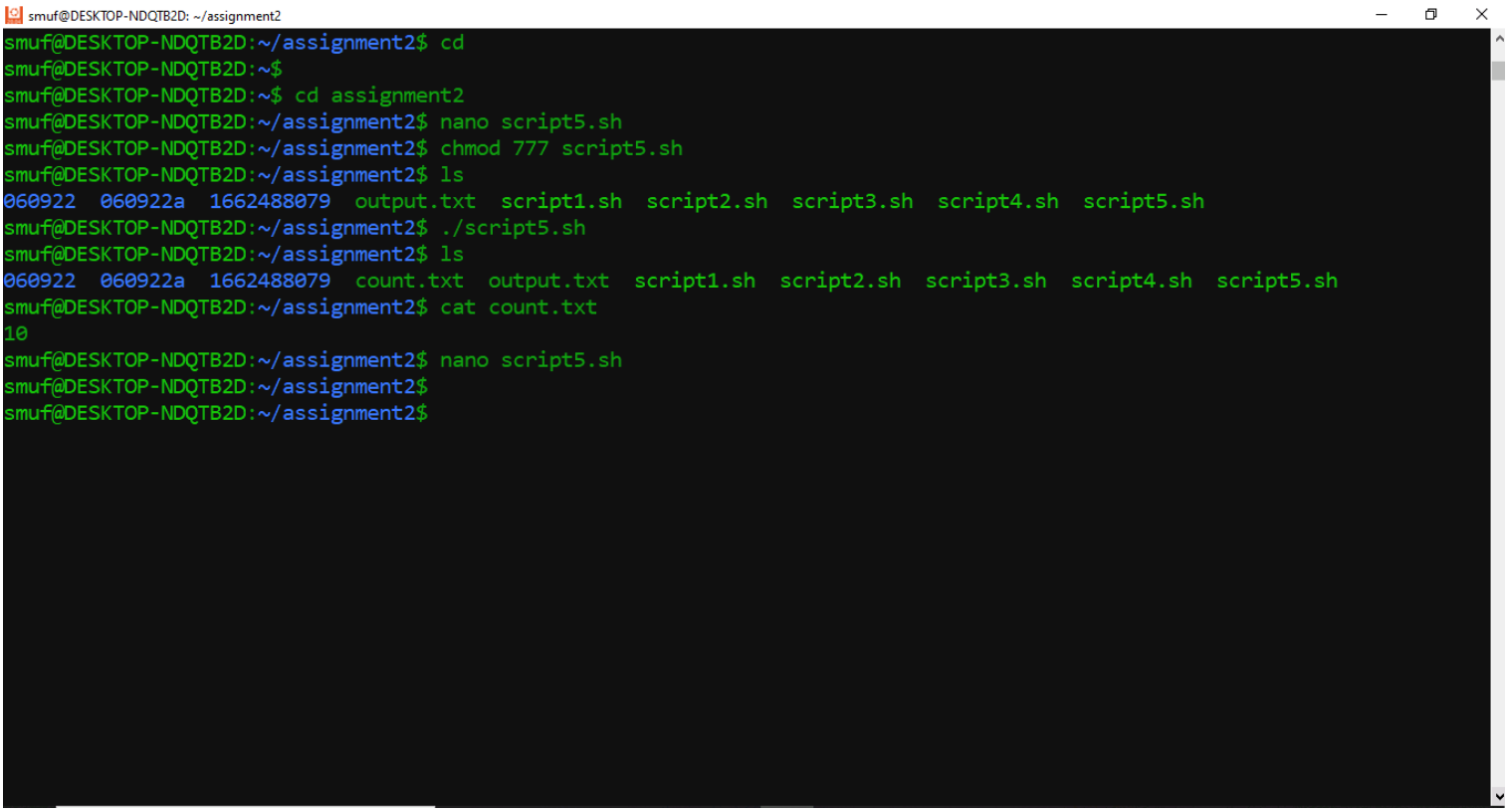

smuf@DESKTOP-NDQTD2D: ~/assignment2
GNU nano 4.8
script4.sh
Modified
#!/bin/bash
#question 3
mkdir $(date +"%s") && touch $(date +"%s")/output1.txt
(date "+%T") >> /home/smuf/assignment2/$(date +"%s")/output1.txt
(date +"%d%m%y") >> /home/smuf/assignment2/$(date +"%s")/output1.txt
uname -a >> /home/smuf/assignment2/$(date +"%s")/output1.txt
pwd >> /home/smuf/assignment2/$(date +"%s")/output1.txt
^G Get Help
^O Write Out
^W Where Is
^K Cut Text
^J Justify
^C Cur Pos
M-U Undo
M-A Mark Text
^X Exit
^R Read File
^\ Replace
^U Paste Text
^T To Spell
^_ Go To Line
M-E Redo
M-6 Copy Text
Type here to search
23°C
ENG
23:40
06-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2/1662488079
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script4.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script4.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script4.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 060922a 1662488079 output.txt script1.sh script2.sh script3.sh script4.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd 1662488079/
smuf@DESKTOP-NDQTB2D:~/assignment2/1662488079$ ls
output1.txt
smuf@DESKTOP-NDQTB2D:~/assignment2/1662488079$ cat output1.txt
23:44:39
060922
Linux DESKTOP-NDQTB2D 5.10.16.3-microsoft-standard-WSL2 #1 SMP Fri Apr 2 22:23:49 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
/home/smuf/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2/1662488079$

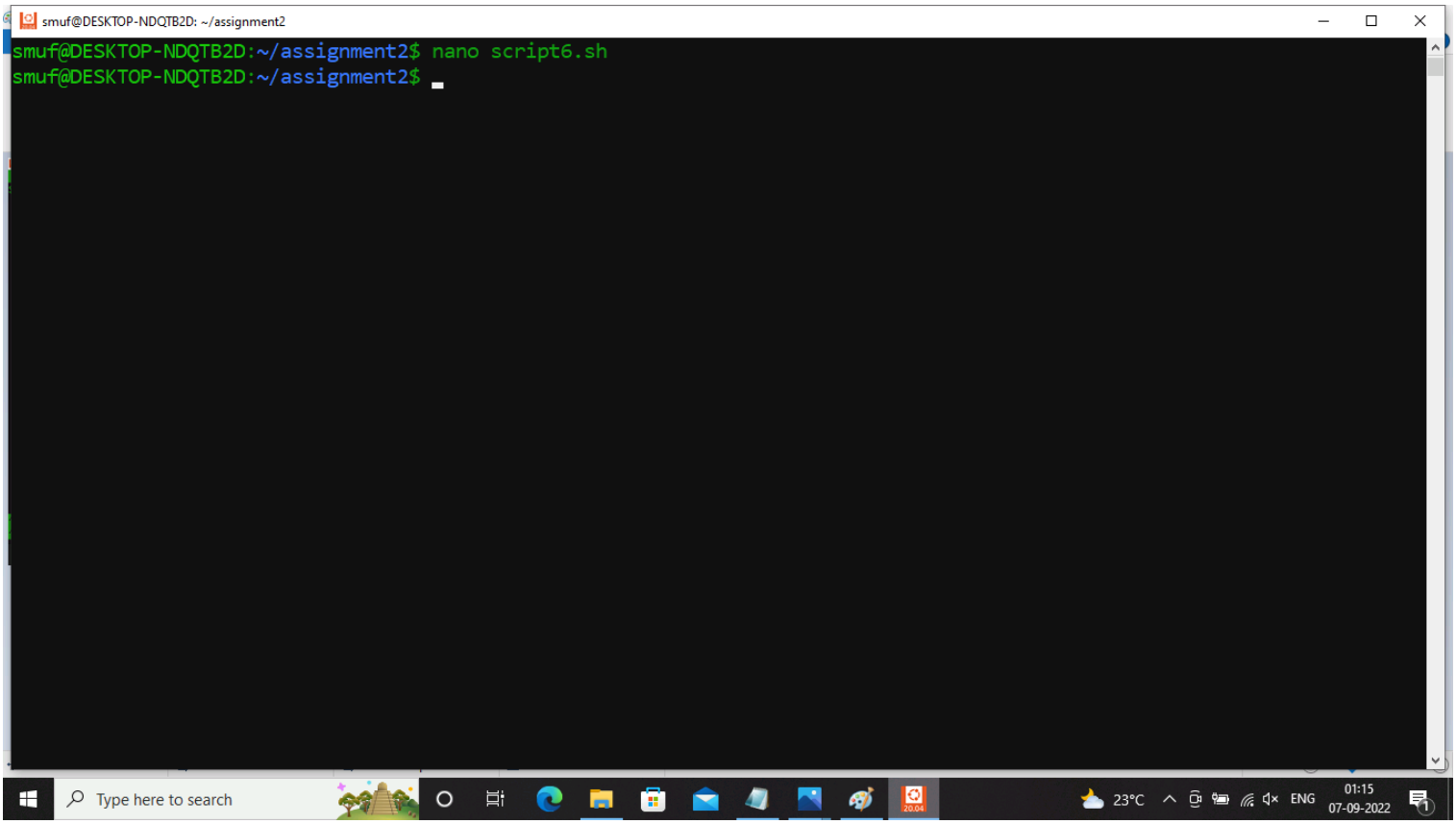
4. Write a script to print the count of number of files in a folder and redirect the count to a file called count.txt. (Reference: Google about word count and pipe commands in linux)

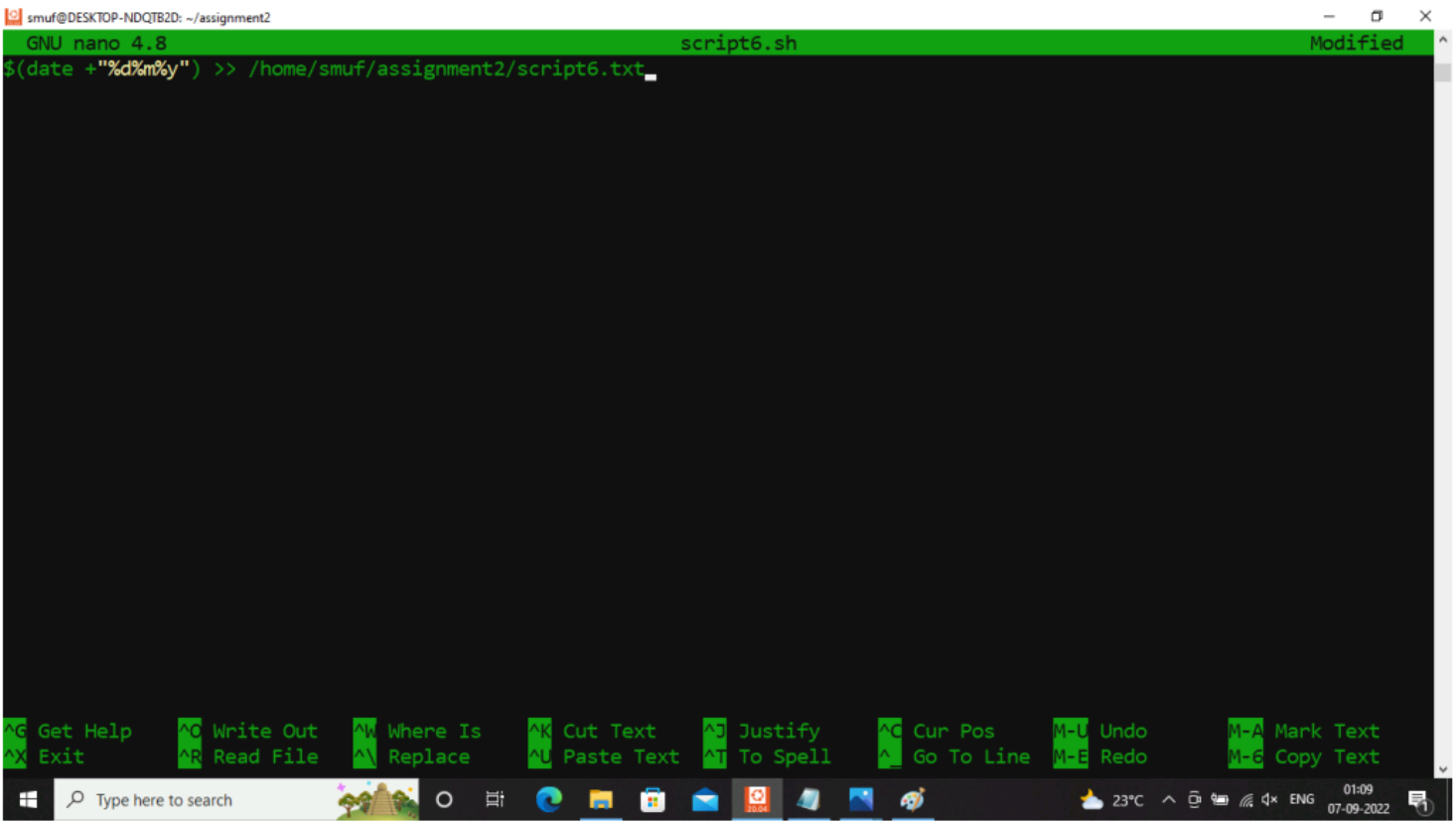

smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script5.sh
Type here to search
24°C Rain
ENG
00:11
07 09 2022


smuf@DESKTOP-NDQTB2D: ~/assignment2
GNU nano 4.8
script5.sh
#!/bin/bash
ls |wc -l >> count.txt
[Read 2 lines]
^G Get Help
^O Write Out
^W Where Is
^K Cut Text
^J Justify
^C Cur Pos
M-U Undo
M-A Mark Text
^X Exit
^R Read File
^\ Replace
^U Paste Text
^T To Spell
^_ Go To Line
M-E Redo
M-6 Copy Text


smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd
smuf@DESKTOP-NDQTB2D:~$
smuf@DESKTOP-NDQTB2D:~$ cd assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script5.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script5.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 060922a 1662488079 output.txt script1.sh script2.sh script3.sh script4.sh script5.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script5.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 060922a 1662488079 count.txt output.txt script1.sh script2.sh script3.sh script4.sh script5.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ cat count.txt
10
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script5.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$
smuf@DESKTOP-NDQTB2D:~/assignment2$

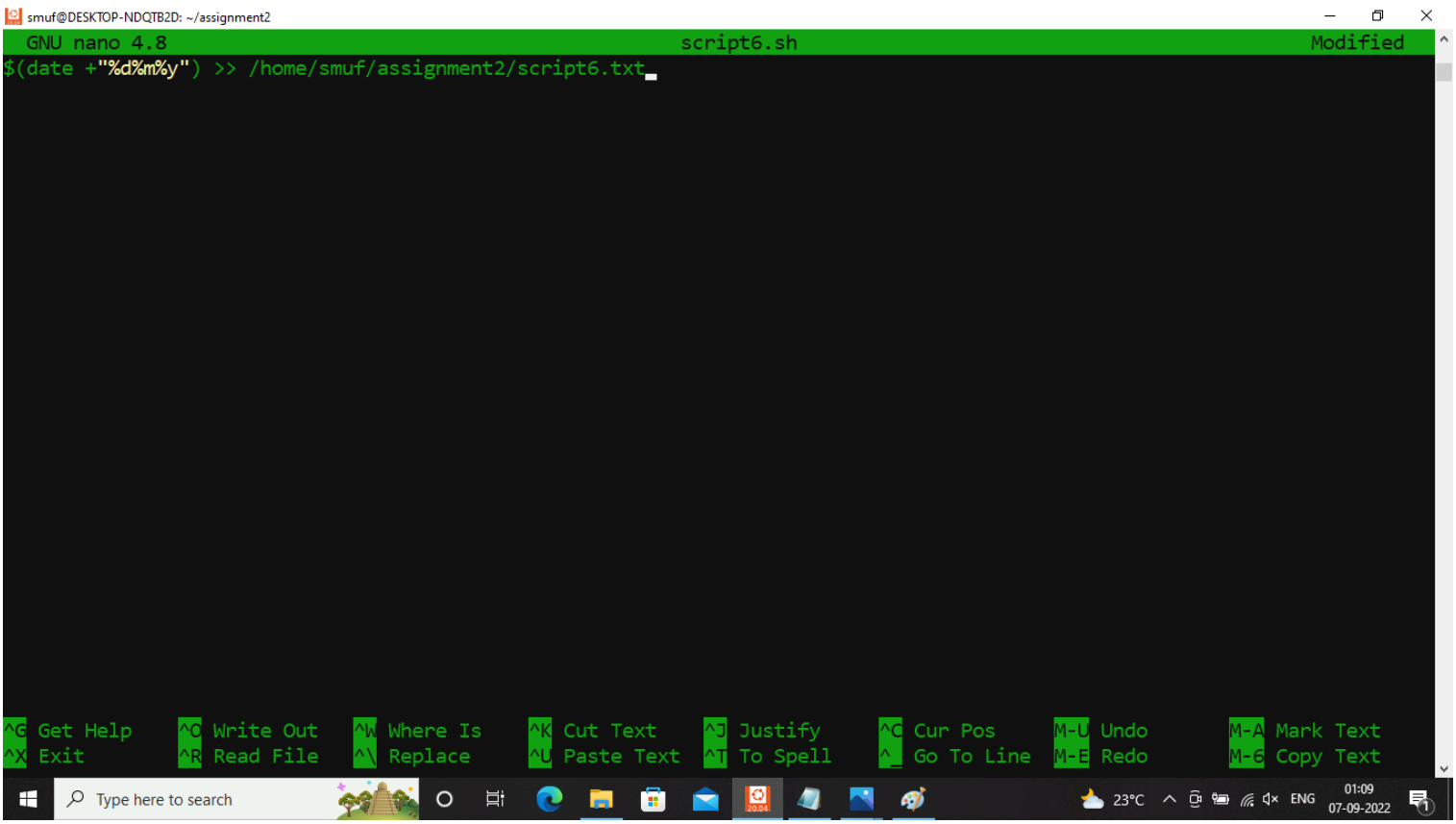
5. Create a bash script to execute date for every 2 minutes once on weekends only?

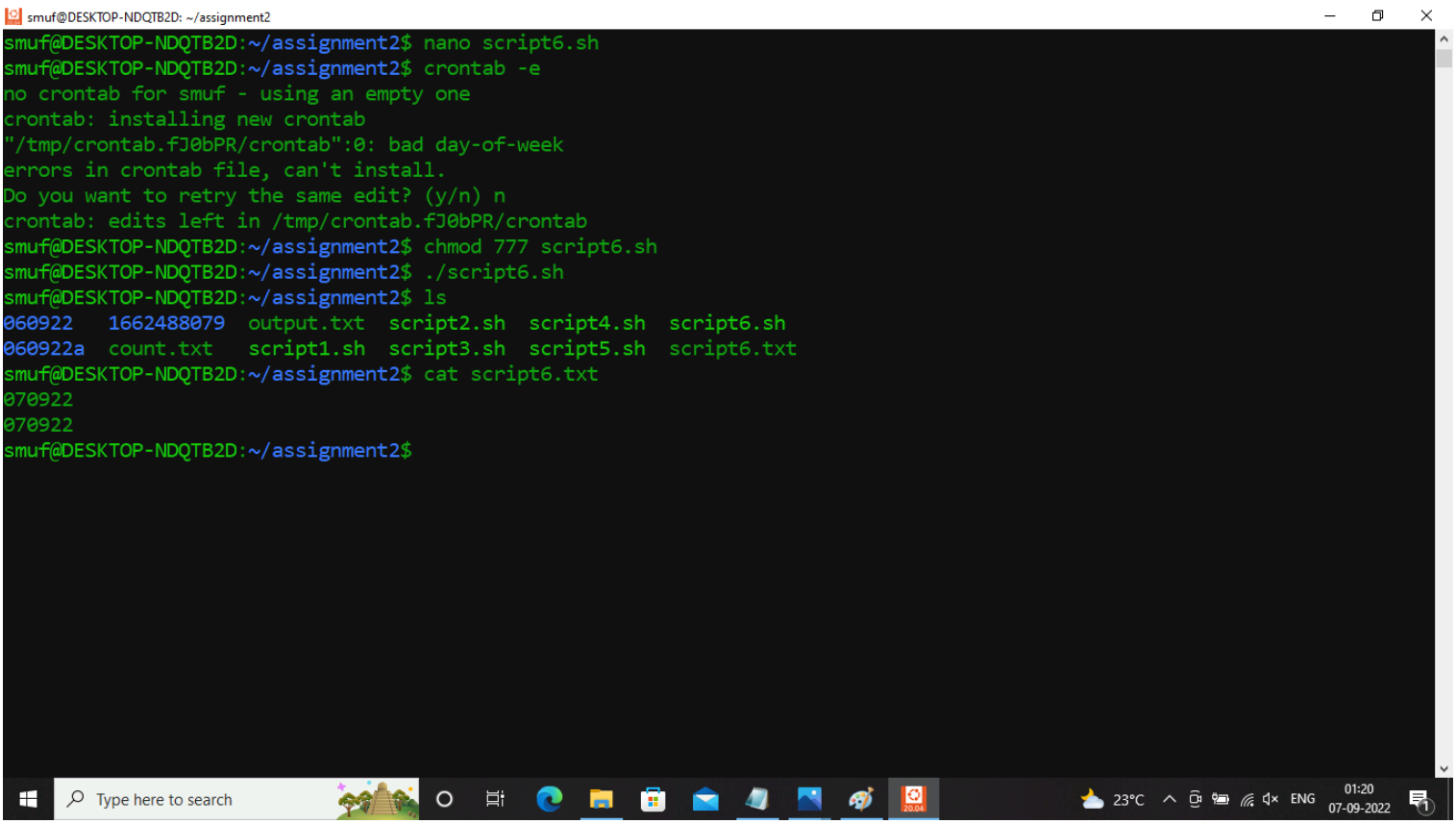

smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$
Type here to search
23°C
ENG
01:15
07-09-2022



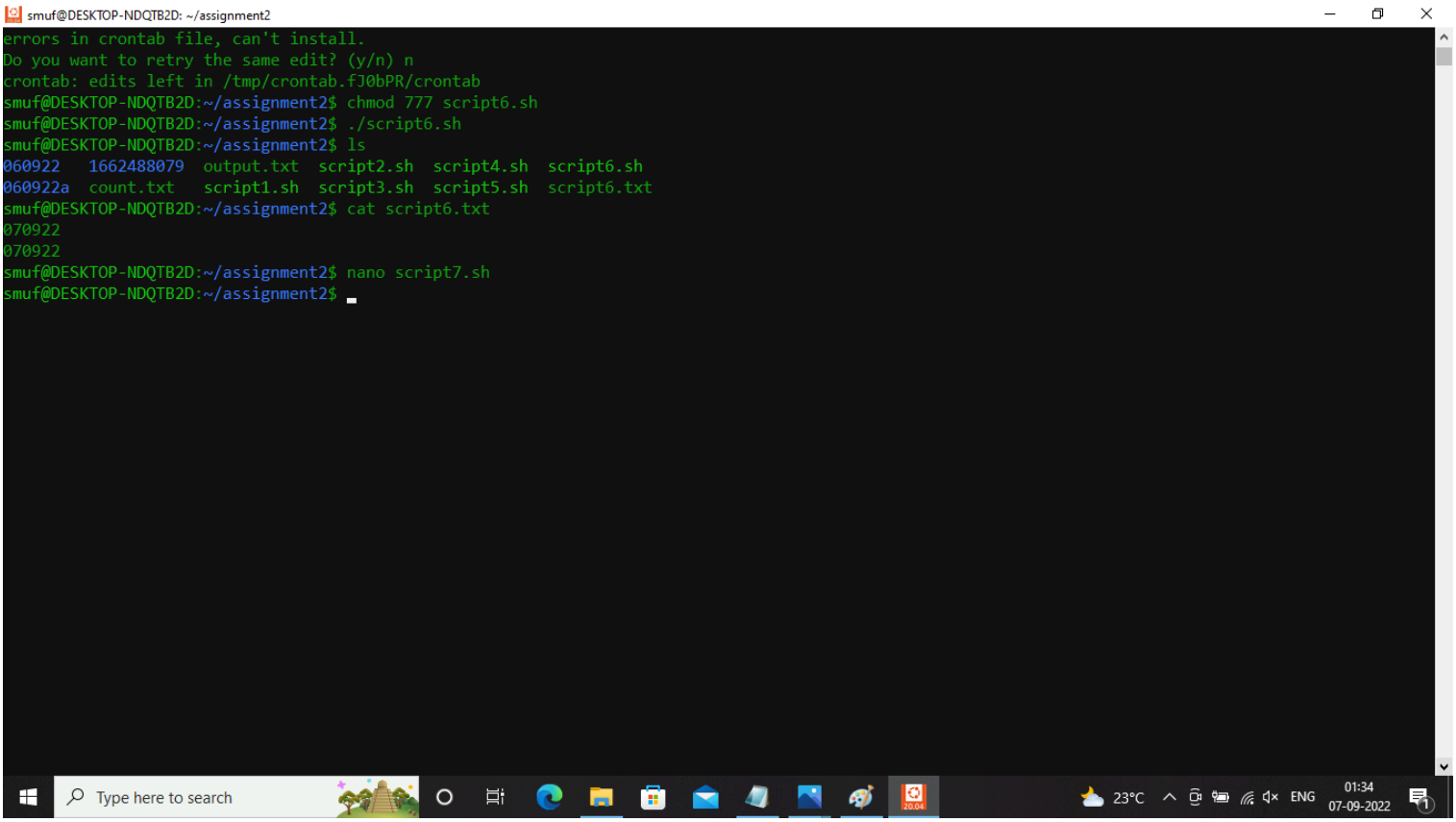
Crontab

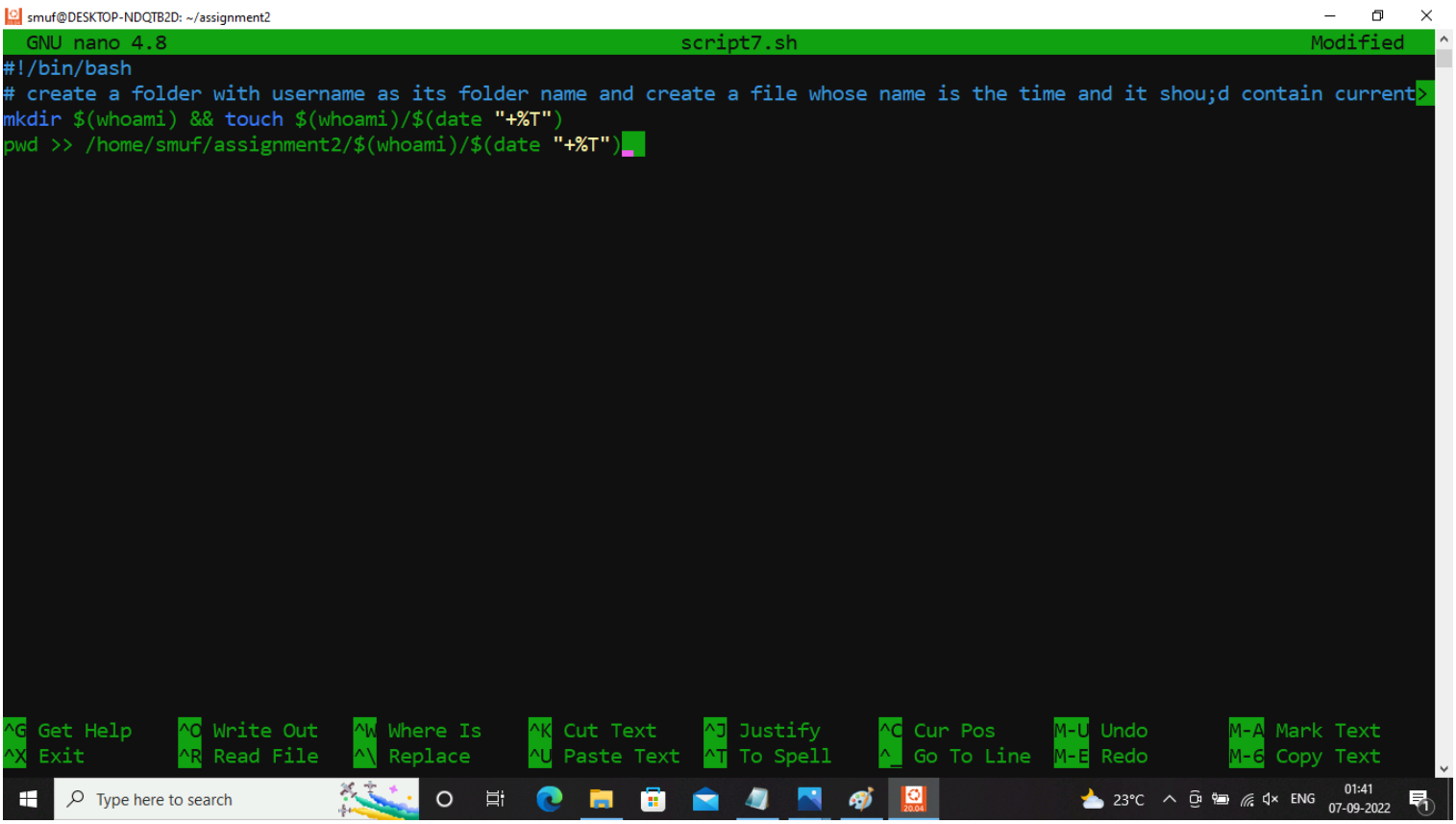
2 * * * (0,6) /home/smuf/assignment2/script6.sh

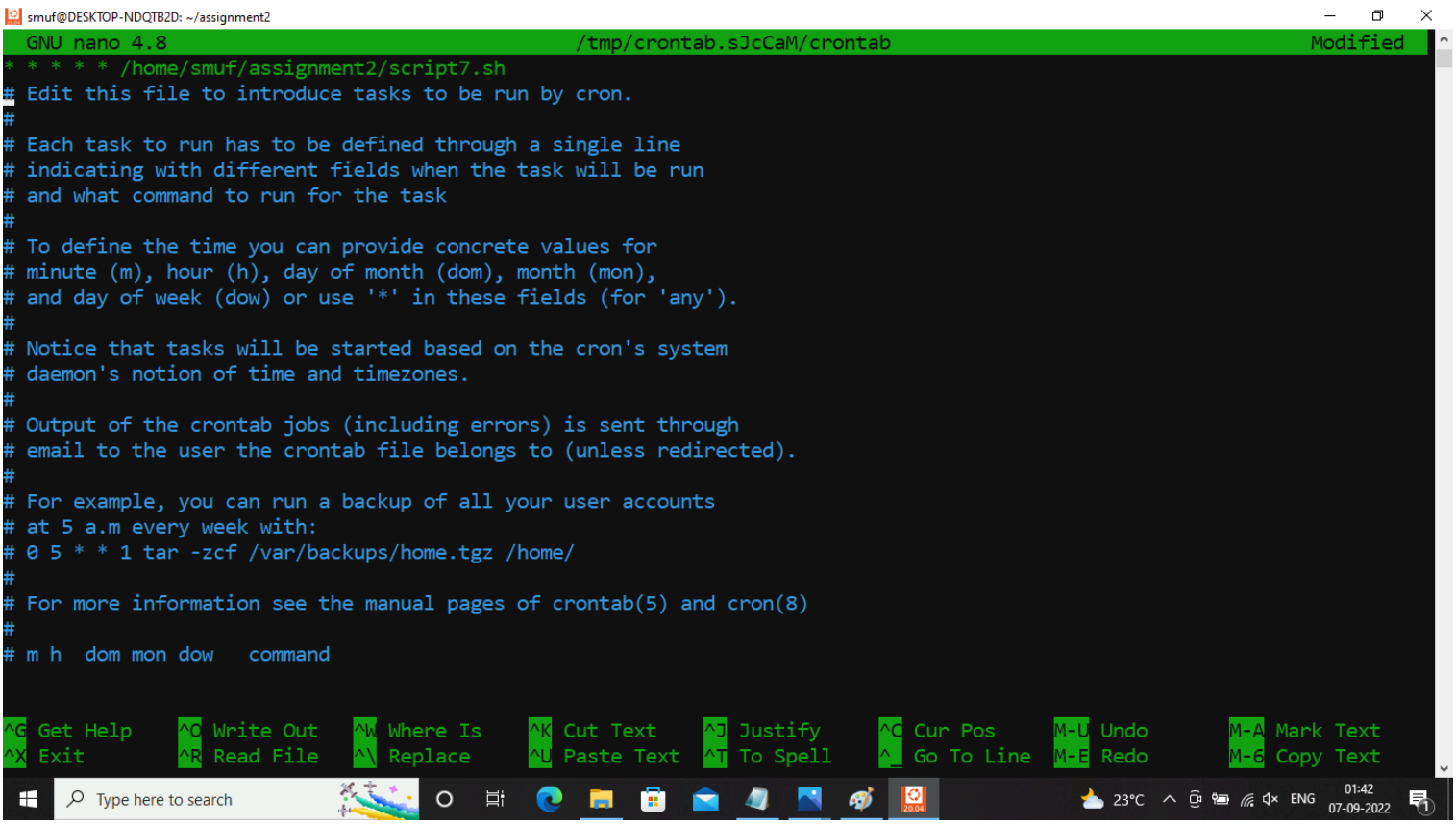

smuf@DESKTOP-NDQTB2D: ~/assignment2
GNU nano 4.8 script6.sh Modified
$(date +"%d%m%y") >> /home/smuf/assignment2/script6.txt
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text
Type here to search
23°C
ENG
01:09
07-09-2022

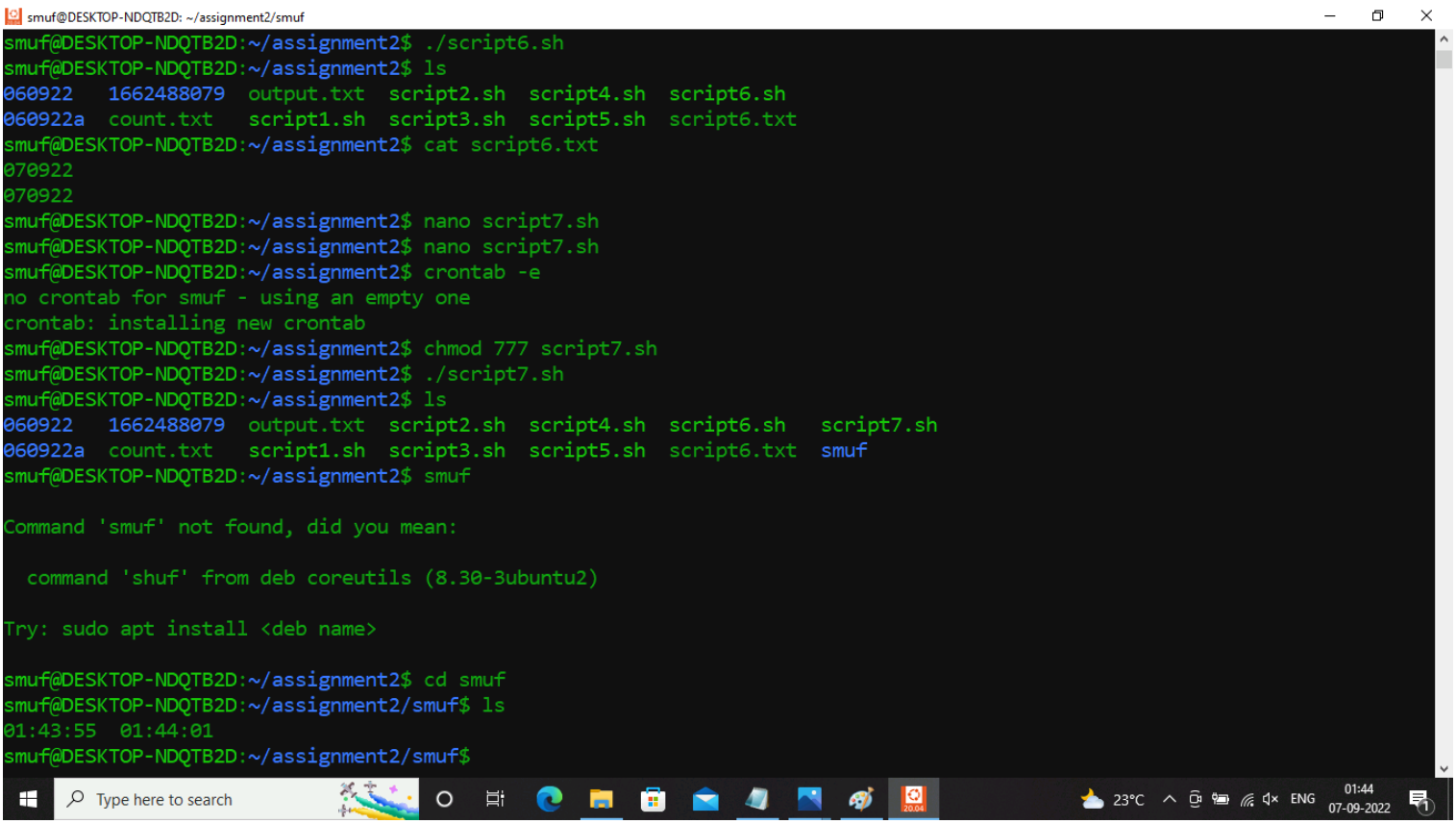

smuf@DESKTOP-NDQTB2D: ~/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ crontab -e
no crontab for smuf - using an empty one
crontab: installing new crontab
"/tmp/crontab.fJ0bPR/crontab":0: bad day-of-week
errors in crontab file, can't install.
Do you want to retry the same edit? (y/n) n
crontab: edits left in /tmp/crontab.fJ0bPR/crontab
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 1662488079 output.txt script2.sh script4.sh script6.sh
060922a count.txt script1.sh script3.sh script5.sh script6.txt
smuf@DESKTOP-NDQTB2D:~/assignment2$ cat script6.txt
070922
070922
smuf@DESKTOP-NDQTB2D:~/assignment2$
Type here to search
23°C
ENG
01:20
07-09-2022

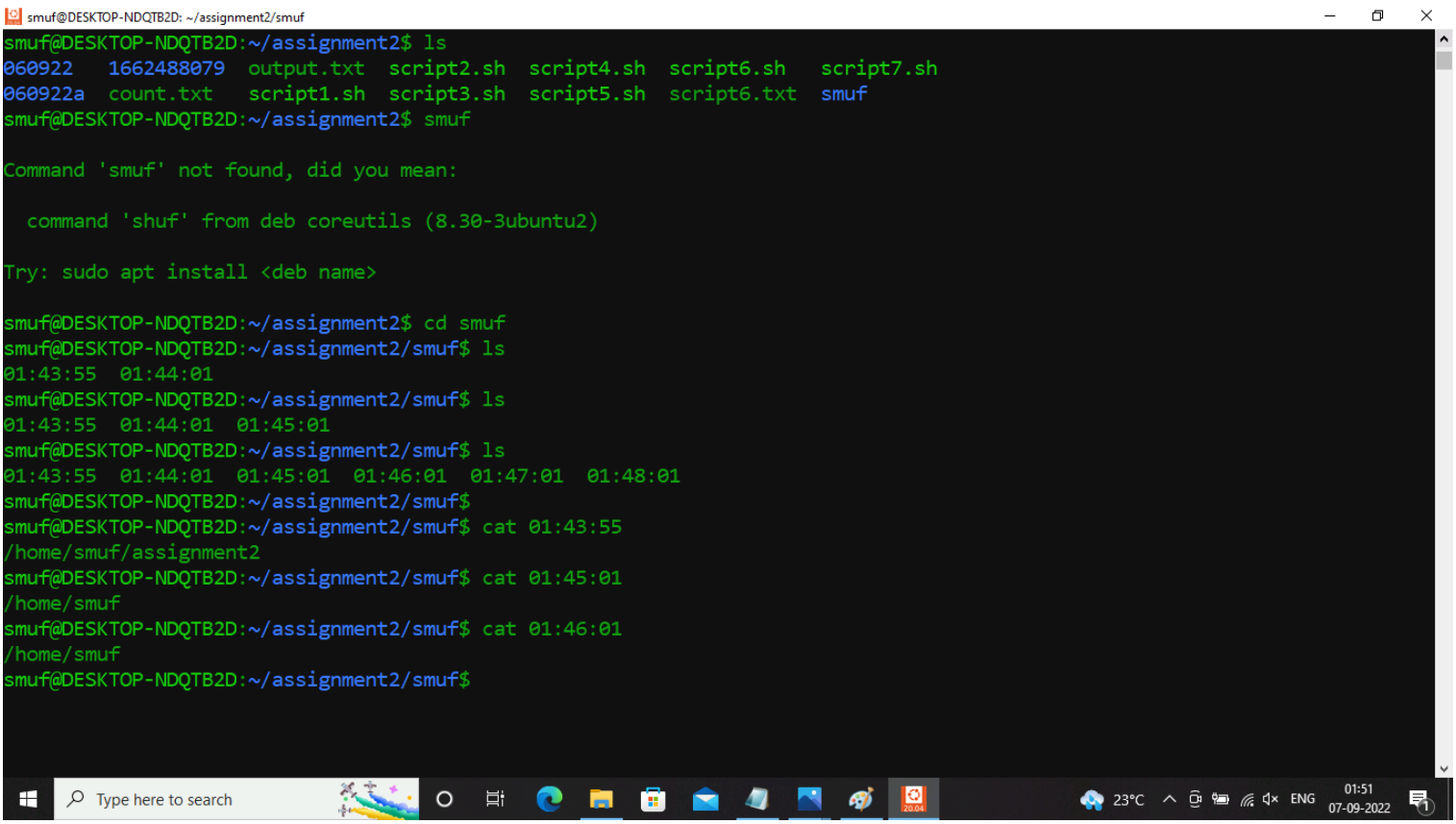
Q) Create folder with username a as its folder name and create a file with time as its name and file should contain current path Content in it every minute once?

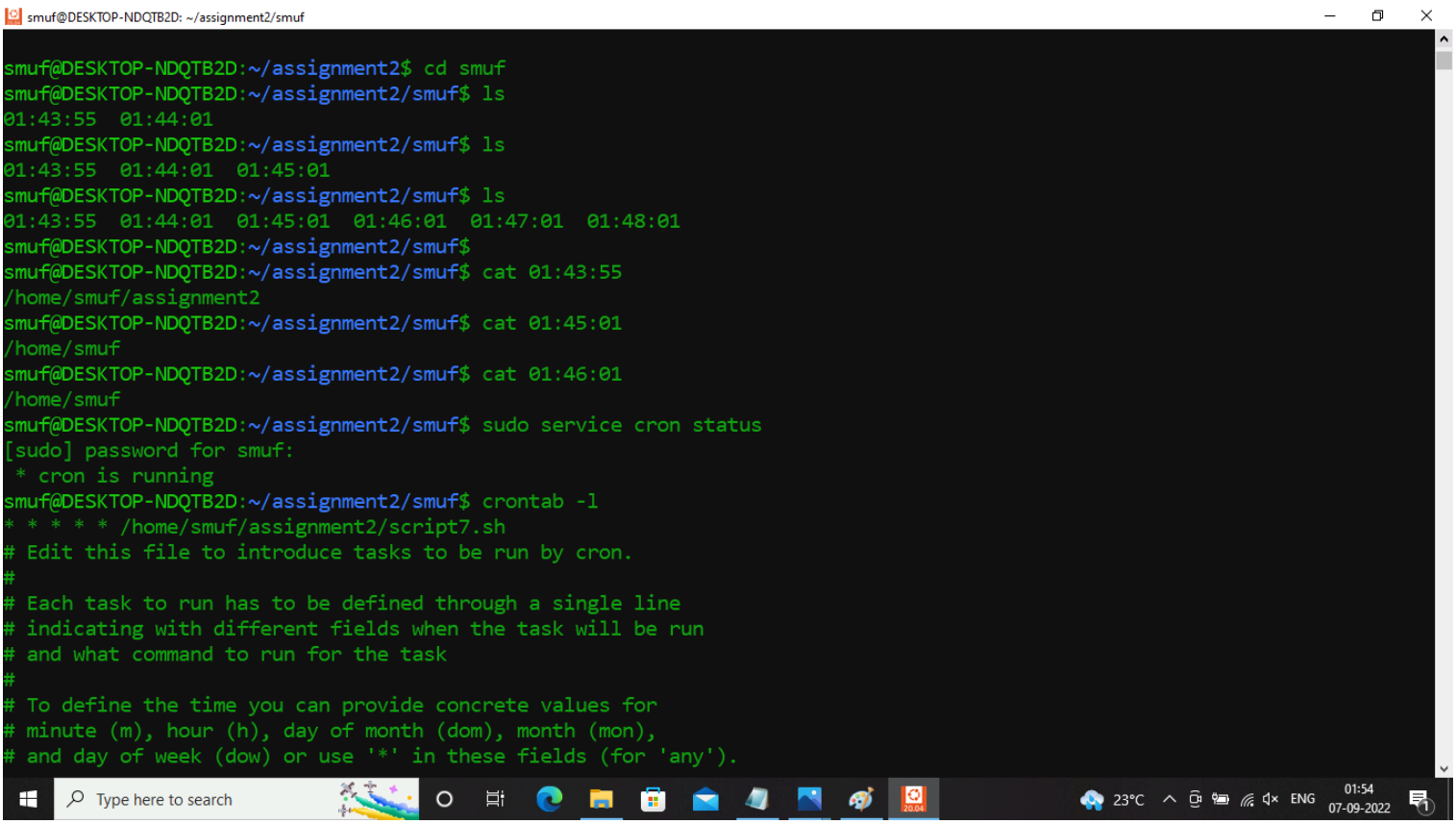

smuf@DESKTOP-NDQTB2D: ~/assignment2
errors in crontab file, can't install.
Do you want to retry the same edit? (y/n) n
crontab: edits left in /tmp/crontab.fJ0bPR/crontab
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 1662488079 output.txt script2.sh script4.sh script6.sh
060922a count.txt script1.sh script3.sh script5.sh script6.txt
smuf@DESKTOP-NDQTB2D:~/assignment2$ cat script6.txt
070922
070922
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script7.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$
Type here to search
23°C
ENG
01:34
07-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2
GNU nano 4.8 script7.sh Modified
#!/bin/bash
create a folder with username as its folder name and create a file whose name is the time and it shou;d contain current
mkdir $(whoami) && touch $(whoami)/$(date "+%T")
pwd >> /home/smuf/assignment2/$(whoami)/$(date "+%T")
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text
Type here to search
23°C
ENG
01:41
07-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2
GNU nano 4.8 /tmp/crontab.sJcCaM/crontab Modified
* * * * * /home/smuf/assignment2/script7.sh
Edit this file to introduce tasks to be run by cron.
#
Each task to run has to be defined through a single line
indicating with different fields when the task will be run
and what command to run for the task
#
To define the time you can provide concrete values for
minute (m), hour (h), day of month (dom), month (mon),
and day of week (dow) or use '*' in these fields (for 'any').
#
Notice that tasks will be started based on the cron's system
daemon's notion of time and timezones.
#
Output of the crontab jobs (including errors) is sent through
email to the user the crontab file belongs to (unless redirected).
#
For example, you can run a backup of all your user accounts
at 5 a.m every week with:
0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
For more information see the manual pages of crontab(5) and cron(8)
#
m h dom mon dow command
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text
Type here to search
23°C
ENG
01:42
07-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script6.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 1662488079 output.txt script2.sh script4.sh script6.sh
060922a count.txt script1.sh script3.sh script5.sh script6.txt
smuf@DESKTOP-NDQTB2D:~/assignment2$ cat script6.txt
070922
070922
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script7.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ nano script7.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ crontab -e
no crontab for smuf - using an empty one
crontab: installing new crontab
smuf@DESKTOP-NDQTB2D:~/assignment2$ chmod 777 script7.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ./script7.sh
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 1662488079 output.txt script2.sh script4.sh script6.sh script7.sh
060922a count.txt script1.sh script3.sh script5.sh script6.txt smuf
smuf@DESKTOP-NDQTB2D:~/assignment2$ smuf
Command 'smuf' not found, did you mean:
command 'shuf' from deb coreutils (8.30-3ubuntu2)
Try: sudo apt install <deb name>
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$
Type here to search
23°C
ENG
01:44
07-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2$ ls
060922 1662488079 output.txt script2.sh script4.sh script6.sh script7.sh
060922a count.txt script1.sh script3.sh script5.sh script6.txt smuf
smuf@DESKTOP-NDQTB2D:~/assignment2$ smuf
Command 'smuf' not found, did you mean:
command 'shuf' from deb coreutils (8.30-3ubuntu2)
Try: sudo apt install <deb name>
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01 01:45:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01 01:45:01 01:46:01 01:47:01 01:48:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ cat 01:43:55
/home/smuf/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ cat 01:45:01
/home/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ cat 01:46:01
/home/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$
Type here to search
23°C
ENG
01:51
07-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2$ cd smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01 01:45:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ ls
01:43:55 01:44:01 01:45:01 01:46:01 01:47:01 01:48:01
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ cat 01:43:55
/home/smuf/assignment2
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ cat 01:45:01
/home/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ cat 01:46:01
/home/smuf
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ sudo service cron status
[sudo] password for smuf:
 * cron is running
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ crontab -l
* * * * * /home/smuf/assignment2/script7.sh
Edit this file to introduce tasks to be run by cron.
#
Each task to run has to be defined through a single line
indicating with different fields when the task will be run
and what command to run for the task
#
To define the time you can provide concrete values for
minute (m), hour (h), day of month (dom), month (mon),
and day of week (dow) or use '*' in these fields (for 'any').
Type here to search
23°C
ENG
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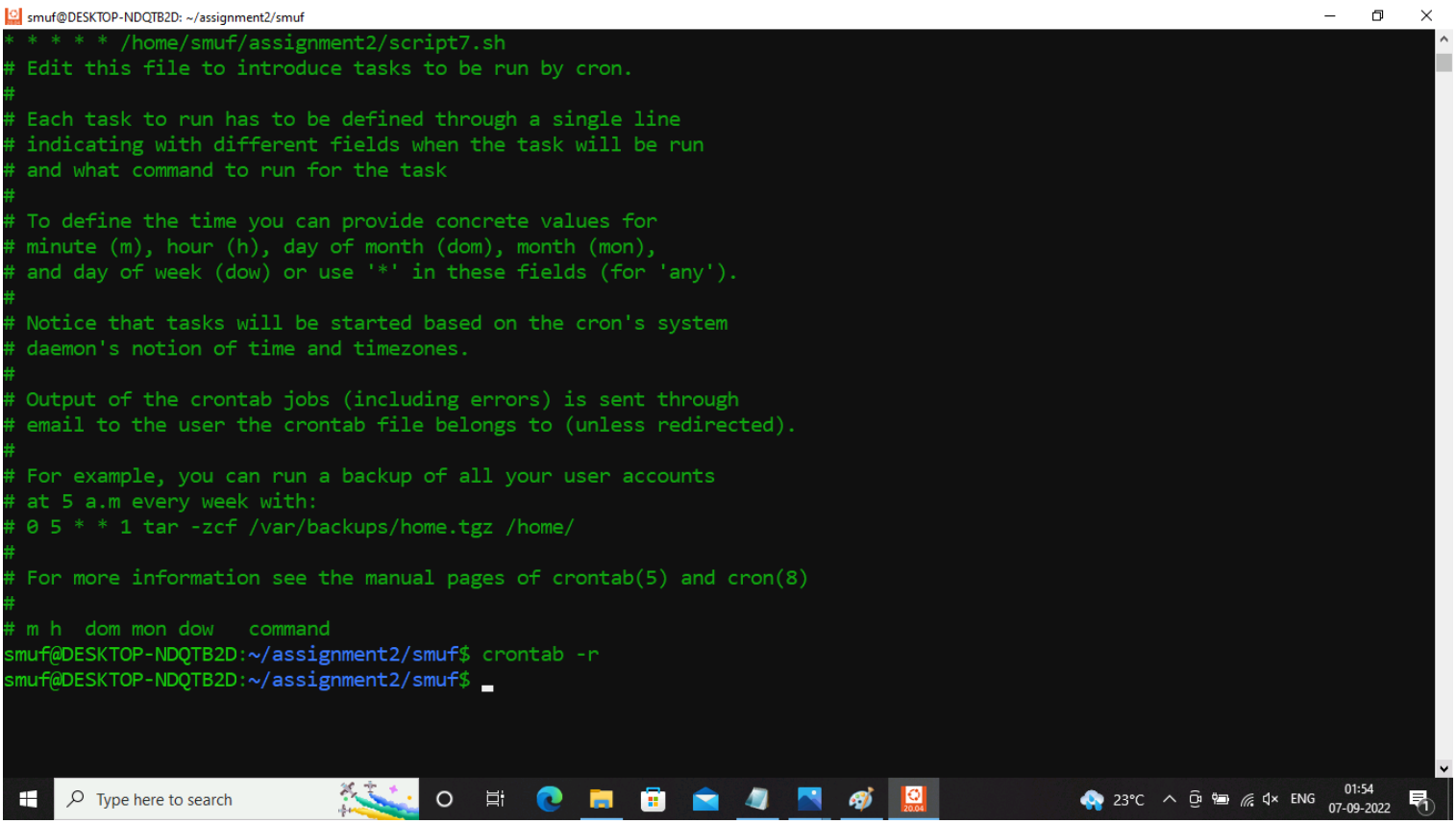
07-09-2022


smuf@DESKTOP-NDQTB2D: ~/assignment2/smuf
* * * * * /home/smuf/assignment2/script7.sh
Edit this file to introduce tasks to be run by cron.
#
Each task to run has to be defined through a single line
indicating with different fields when the task will be run
and what command to run for the task
#
To define the time you can provide concrete values for
minute (m), hour (h), day of month (dom), month (mon),
and day of week (dow) or use '*' in these fields (for 'any').
#
Notice that tasks will be started based on the cron's system
daemon's notion of time and timezones.
#
Output of the crontab jobs (including errors) is sent through
email to the user the crontab file belongs to (unless redirected).
#
For example, you can run a backup of all your user accounts
at 5 a.m every week with:
0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
For more information see the manual pages of crontab(5) and cron(8)
#
m h dom mon dow command
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$ crontab -r
smuf@DESKTOP-NDQTB2D:~/assignment2/smuf$
Type here to search
23°C
ENG
01:54
07-09-2022