

# Linux Laboratory ENSC3130 Project 1 Automated Linux/Unix Command Manual Generation

# Prepared by:

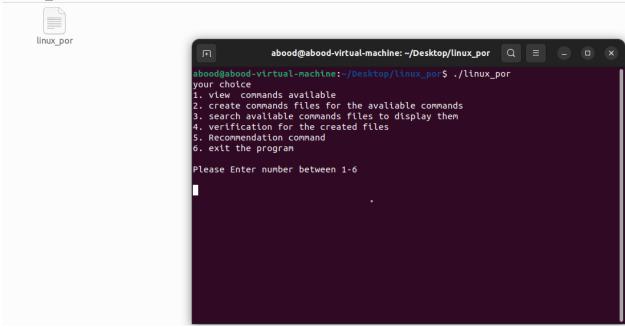
Abdelrhman Abed 1193191

**Instructor**: Dr. Aziz Qaroush **Assistant**: Eng. Ahed Mafarjeh

**Section:** 4

**Date:** 3 /1/2024

# Program Interface:



The user have 6 choices from 1-6 and each choice give different result as shown below when enter number 6 it is exit form program

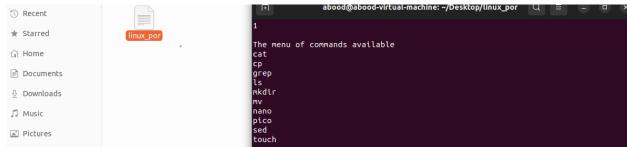
Note: I using case statement in this code

### The Code:

```
GNU nano 6.2 linux_por

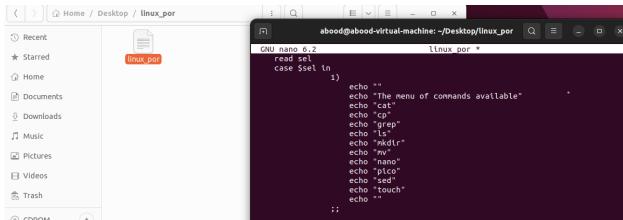
#abdelrhrman abed - 1193191
while true
do
    echo "your choice "
    echo "1. view commands available "
    echo "2. create commands files for the avaliable commands"
    echo "3. search avaliable commands files to display them"
    echo "4. verification for the created files"
    echo "5. exit the program"
    echo "Please Enter number between 1-5"
    echo ""
```

## View commands available:

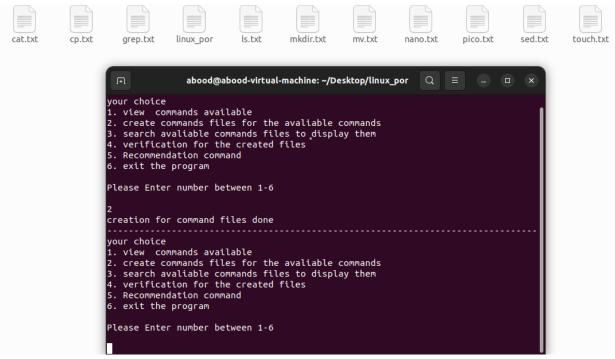


When the first choice is picked by entering 1 (view command available ) it will give this result menu of commands (cat, cp, grep, ls, mkdir, mv, nano, pico, sed, touch)

#### The Code:



## Create command files:



When the second choice is picked by entering 2 it will create file.txt for each command and insert in each file.txt (Command Description, Version, Example, Related, Note)

The operation is done automatically

### Search

```
Please Enter number between 1-5
3
Enter the command name to search:
enter 0 if you want back to meun
```

When the Third choice is picked by entering 3 you will get a message (enter name command to search) and (enter 0 if you and back)

```
Enter the command name to search:
enter 0 if you want back to meun
s
commands that have s
1 ls
2 sed
```

Here the user can search for a word or litter for example by writing s the program will show the commands have letter s and the user must write the full name of command to display what is in file.txt to aplly the command

```
2 sed
Enter the command name to search:
enter 0 if you want back to meun
escription for sed command:
ESCRIPTION
      Sed is a stream editor. A stream editor is used to perform basic text
      transformations on an input stream (a file or input from a pipeline).
      While in some ways similar to an editor which permits scripted edits
      (such as ed), sed works by making only one pass over the input(s), and
      is consequently more efficient. But it is sed's ability to filter text
he Version for sed command:
ed (GNU sed) 4.8
ackaged by Debian
opyright (C) 2020 Free Software Foundation, Inc.
icense GPLv3+: GNU GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>.
This is free software: you are free to change and redistribute it.
here is NO WARRANTY, to the extent permitted by law.
Iritten by Jay Fenlason, Tom Lord, Ken Pizzini,
Paolo Bonzini, Jim Meyering, and Assaf Gordon.
```

When user write the name of the wanted command the program will display what is in file.txt to commad txt (Command Description, Version, Example, Related, Note)

```
Enter the command name to search:
enter 0 if you want back to meun
q
commands that have q
No matching command found have q
Do you want to display the suggested command (yes/no)?
```

When user enter or write an unavailable word or latter, do you want to display the suggested command (yes/no) will be given

```
commands that have q

No matching command found have q

Do you want to display the suggested command (yes/no)?

yes

cat

cp

grep

ls

mkdir

mv

nano

pico

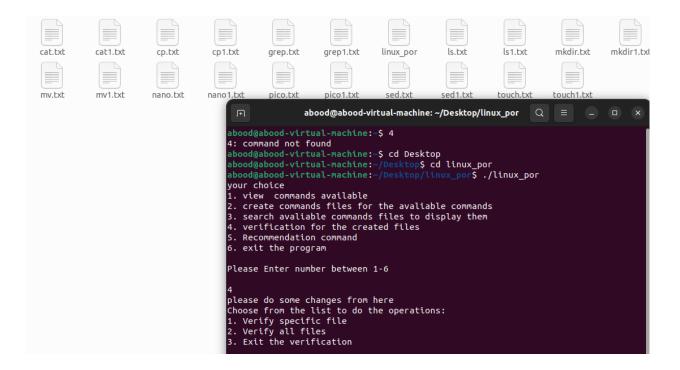
sed

touch

Enter the command name to search:
enter 0 if you want back to meun
```

By answering yes you will get a suggested command but if you chose no you can change the search contact

#### Verification



When the ford choice is picked by entering 4 menu for verification and will make file1.txt and copy data from file.txt to file1.txt So that we can do a comparison between file.txt and file1.txt in case 1 the verify file and 2 the verify all files

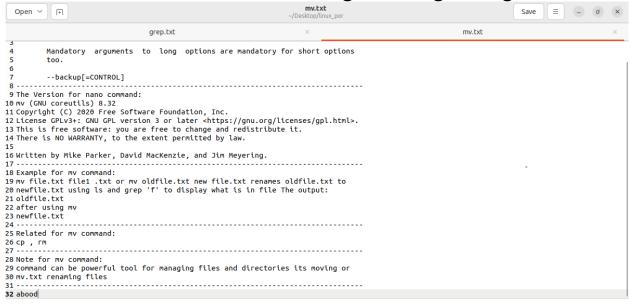
```
Please enter the command name to verify the files:

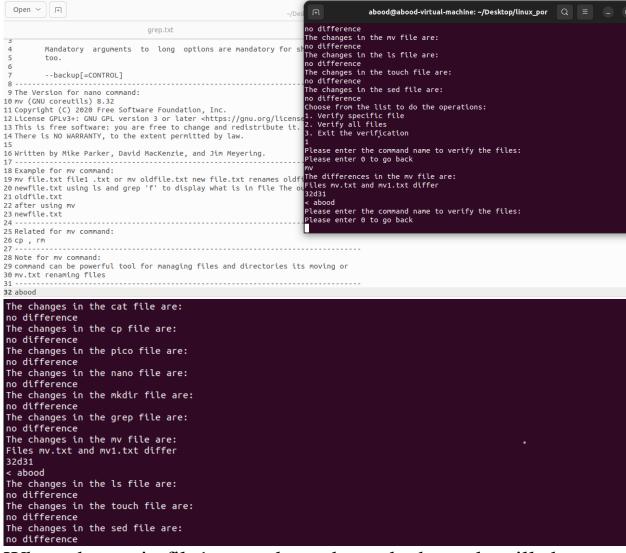
Please enter 0 to go back
grep

The differences in the grep file are:
no difference
Please enter the command name to verify the files:
Please enter 0 to go back
```

```
Choose from the list to do the operations:
1. Verify specific file
2. Verify all files
Exit the verification
2
The changes in the cat file are:
no difference
The changes in the cp file are:
no difference
The changes in the pico file are:
no difference
The changes in the nano file are:
no difference
The changes in the mkdir file are:
no difference
The changes in the grep file are:
no difference
The changes in the mv file are:
no difference
The changes in the ls file are:
no difference
The changes in the touch file are:
no difference
The changes in the sed file are:
no difference
```

# No difference because I don't change in thing in original file





When change in file1.txt and run the code the code will show the difference and what the difference and any line and column Note: I using case statement in this code

### Recommendation

```
The most Commands i use in program
./linux_por
chmod
nano
cd
ls
./newl
chmod
sh
clear
cd
cat
history
cat
history
touch
choice the command to display:
enter 0 if you want back to meun
```

When the 5 choice is picked by entering 5 will display a most command I used in program you can make search here also if you enter name command not available the a message show command not available you can used a commands (cat, cp, grep, ls, mkdir, mv, nano, pico, sed, touch) to display (Command Description, Version, Example, Related, Note)

```
The most Commands i use in program
./linux_por
chmod
nano
cd
man
clear
./newl
sh
\mathsf{cd}
cat
history
cat
man
history
touch
man
choice the command to display: enter 0 if you want back to meun
history
command not available history
The command available to Display cat /cp /nano/pico/grep/mv/mkdir/sed/touch/ls choice the command to display:
enter 0 if you want back to meun
```