

OS PRACTICAL 2

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Roll No: 23

Batch: A2

Problem statement :

Implement the Unix file commands using shell scripting.

CODE

```
i="y"

while [ $i = "y" ]
do
echo "1)present working directory"
echo "2)list of files and directories "
echo "3)creating directory "
echo "4)changing directory "
echo "5)remove a directory "
echo "6)create a file "
echo "7)display content of file "
echo "8)rename a file "
echo "9)copy a file "
echo "10)remove a file "

echo "enter your choice"
read ch
case $ch in
    1)echo "current present working directory is "
    pwd;;

    2)echo "list of files and directories is"
    ls;;

    3)echo "creating directory "
    echo "enter name of directory to be created "
    read newdir
```

```
mkdir $newdir;;
```

```
4)echo "changing directory "  
echo "enter name of directory to be switched "  
read chdir  
cd $chdir;;
```

```
5)echo "changing directory "  
echo "enter name of directory to be removed "  
read remdir  
rmdir $remdir;;
```

```
6)echo "created a file "  
echo "enter name of a file to be created "  
read fl  
touch $fl;;
```

```
7)echo "enter name of file to display content "  
read fl  
cat $fl;;
```

```
8)echo "enter name of a source file to be renamed "  
read sfl  
echo "enter new name "  
read nfl  
mv $sfl $nfl;;
```

```
9)echo "enter name of a source file to be copied "  
read sfl  
echo "enter name of a destination file "  
read dfl  
cp $sfl $dfl;;
```

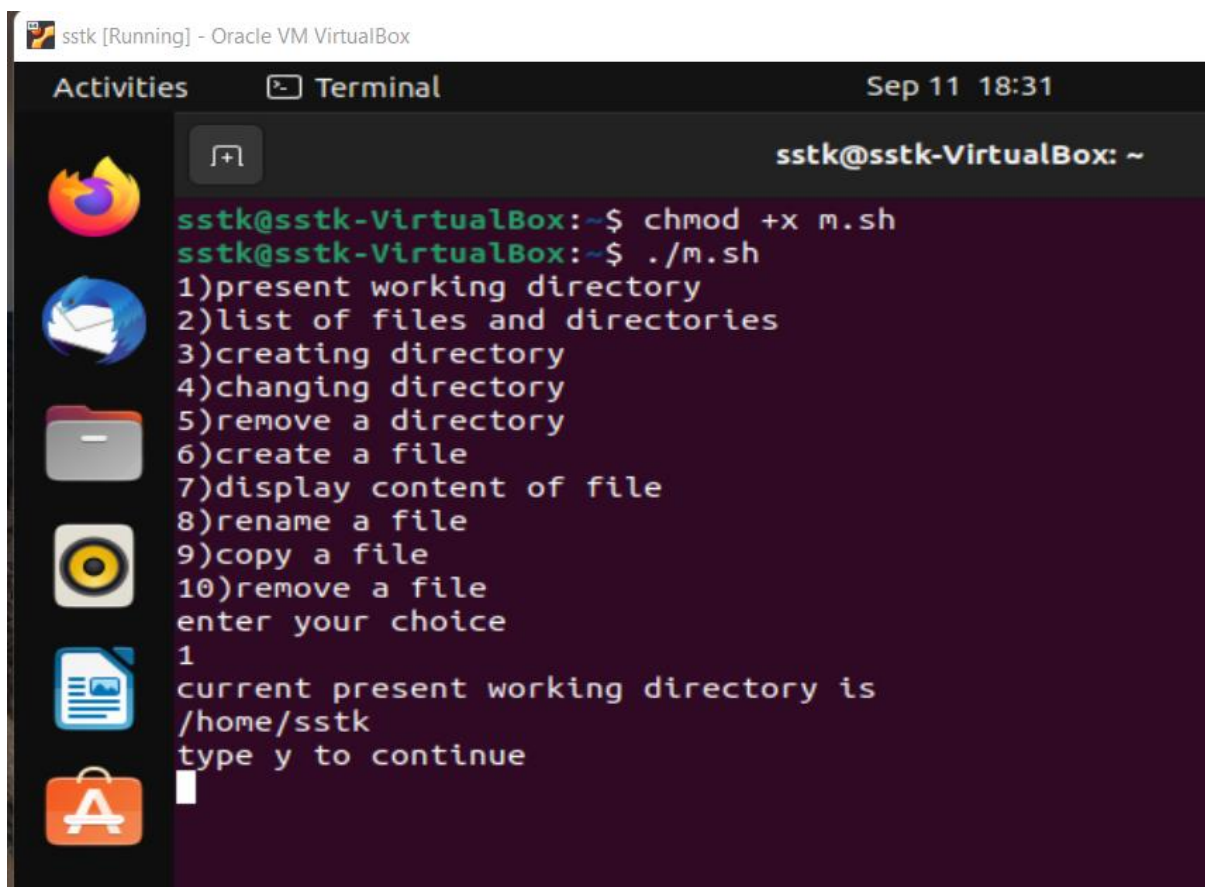
```
10)echo "enter name of a file to be removed "  
read dfl  
rm $dfl;;
```

```
*)echo "invalid -_- "
```

```
esac
echo "type y to continue"
read i
if [ $i != "y" ]
then
    exit
fi
done
```

OUTPUT

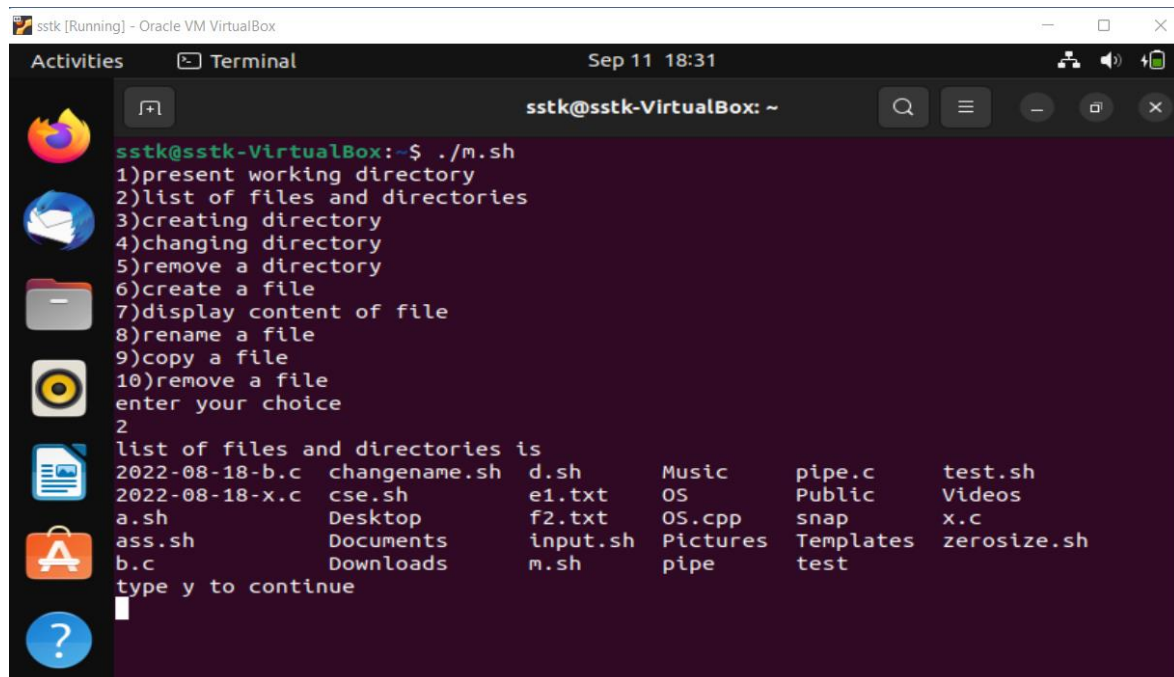
1)present working directory



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
sstk@sstk-VirtualBox:~$ chmod +x m.sh
ssk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
1
current present working directory is
/home/ssk
type y to continue
```

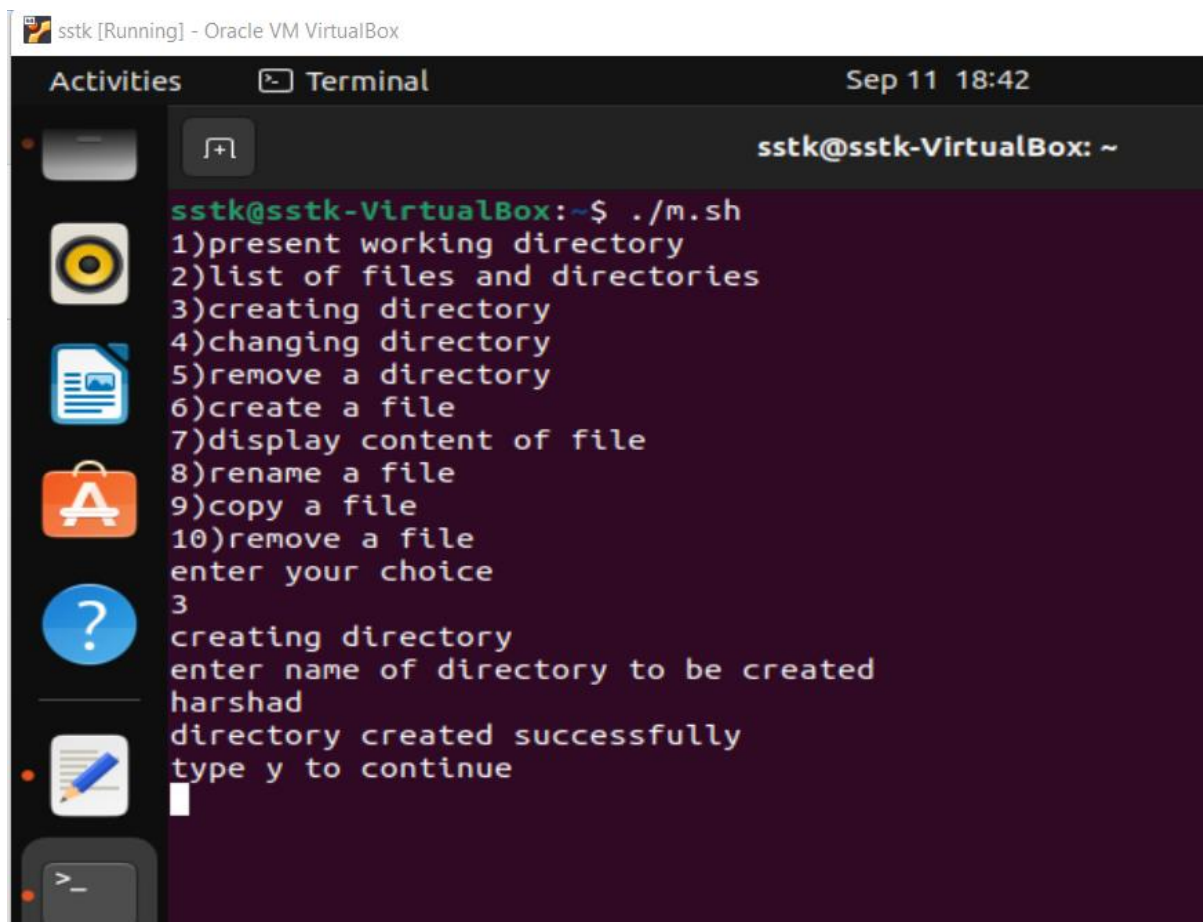
2)list of files and directories



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox" with a timestamp of "Sep 11 18:31". The terminal displays the output of a script named `./m.sh`. The script lists 10 options, and the user has entered '2' to list files and directories. The output shows a list of files and directories in a grid format.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
2
list of files and directories is
2022-08-18-b.c  changename.sh  d.sh      Music    pipe.c    test.sh
2022-08-18-x.c  cse.sh         e1.txt    OS       Public   Videos
a.sh           Desktop       f2.txt    OS.cpp   snap     x.c
ass.sh        Documents    input.sh  Pictures Templates zerosize.sh
b.c           Downloads    m.sh      pipe     test
type y to continue
```

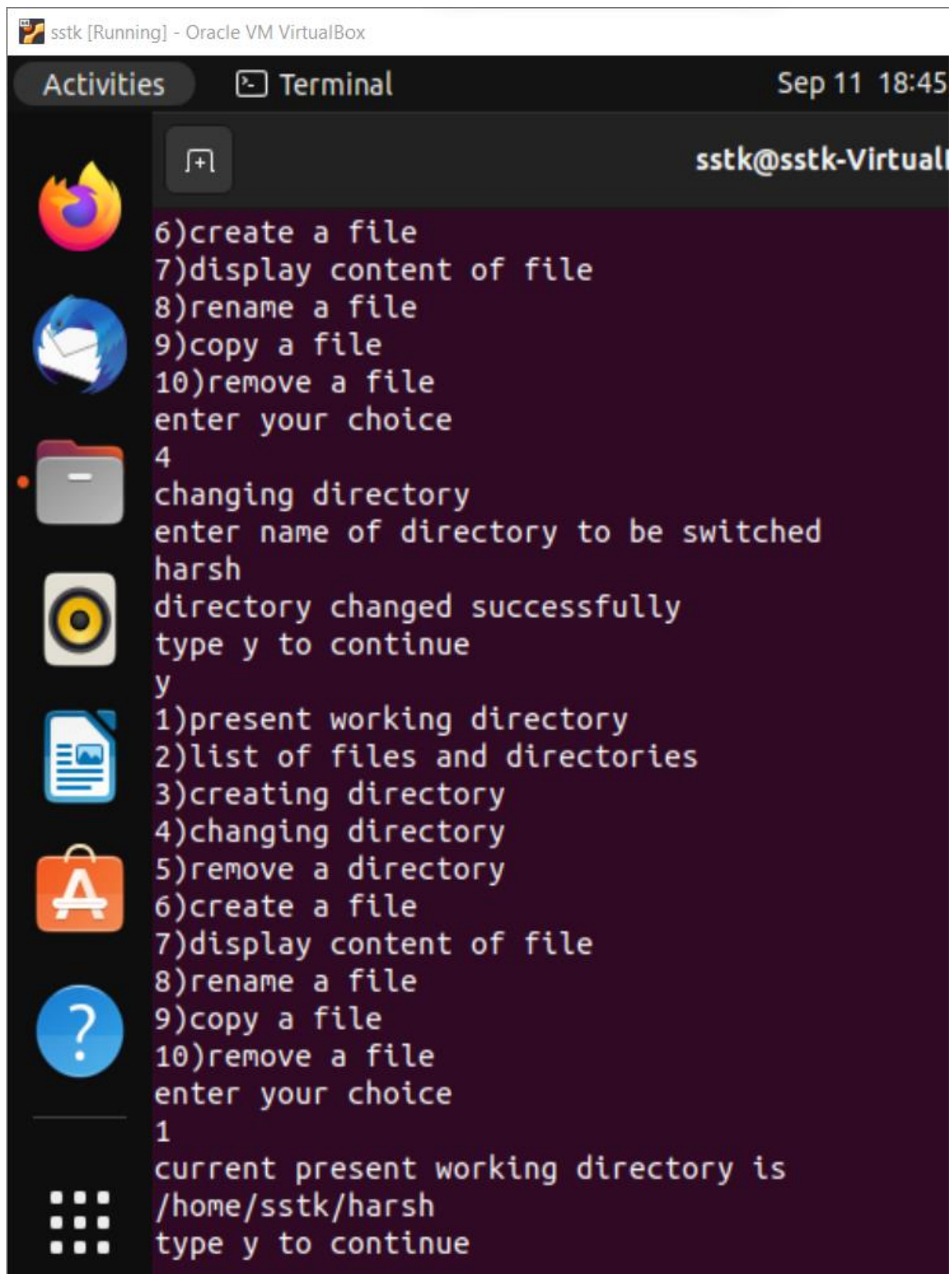
3)creating directory



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox" with a timestamp of "Sep 11 18:42". The terminal displays the output of a script named `./m.sh`. The script lists 10 options, and the user has entered '3' to create a directory. The user has entered 'harshad' as the directory name, and the script confirms that the directory was created successfully.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
3
creating directory
enter name of directory to be created
harshad
directory created successfully
type y to continue
```

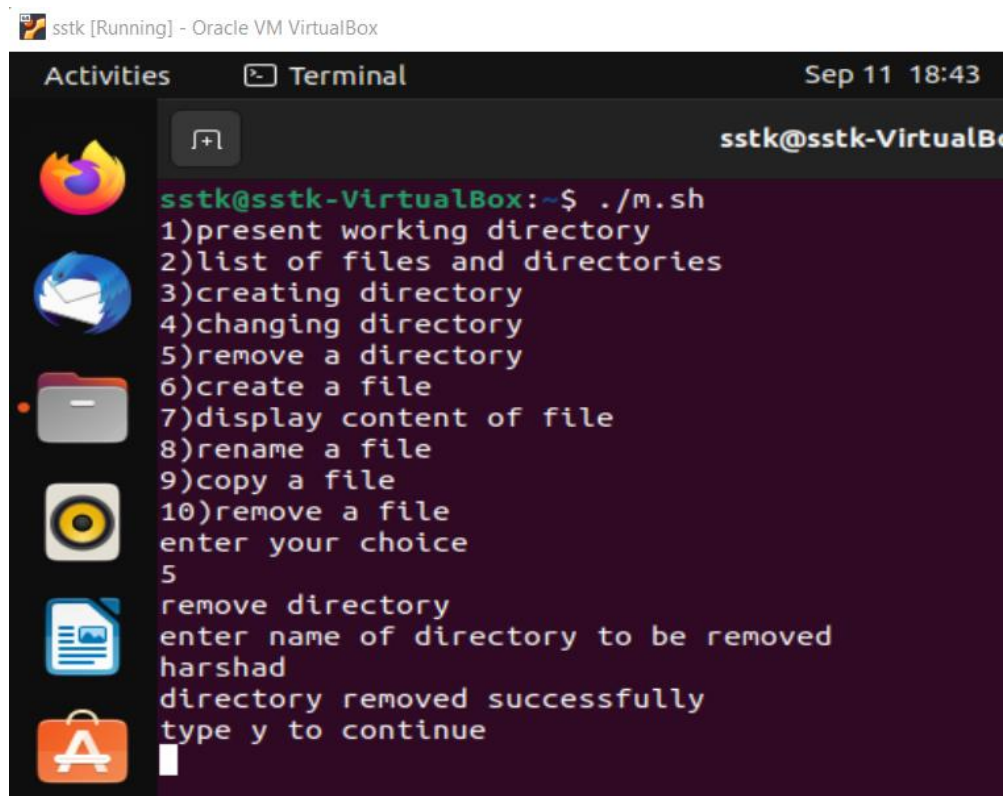
4)changing directory



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox". The terminal has a dark purple background and displays a menu of file management options. The user has selected option 4, "changing directory", and entered the directory name "harsh". The terminal confirms the directory change and prompts the user to type 'y' to continue. The user has entered 'y', and the terminal displays the current working directory as "/home/sstk/harsh".

```
sstk [Running] - Oracle VM VirtualBox
Sep 11 18:45
sstk@sstk-Virtual
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
4
changing directory
enter name of directory to be switched
harsh
directory changed successfully
type y to continue
y
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
1
current present working directory is
/home/sstk/harsh
type y to continue
```

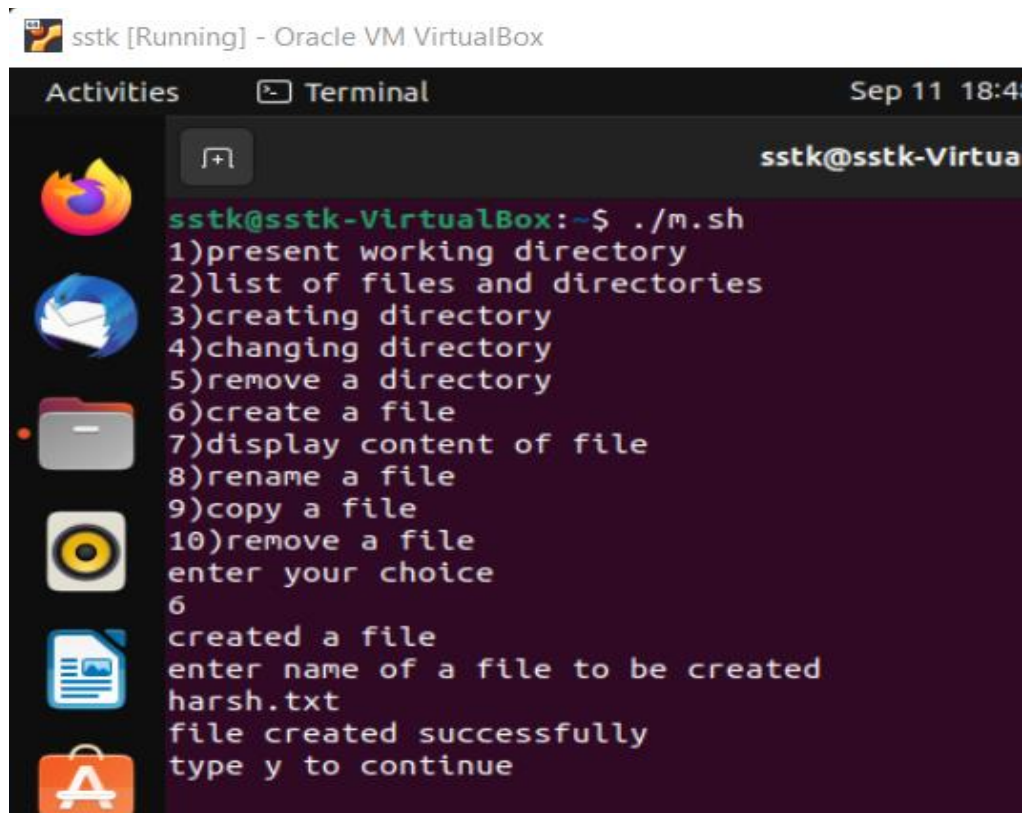

5)remove a directory



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox" with a date and time of "Sep 11 18:43". The terminal displays the output of a script named "m.sh". The script lists 10 options, and option 5, "remove a directory", is selected. The user is prompted to enter the name of the directory to be removed, and "harshad" is entered. The script confirms that the directory was removed successfully and asks to type 'y' to continue.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
5
remove directory
enter name of directory to be removed
harshad
directory removed successfully
type y to continue
y
```

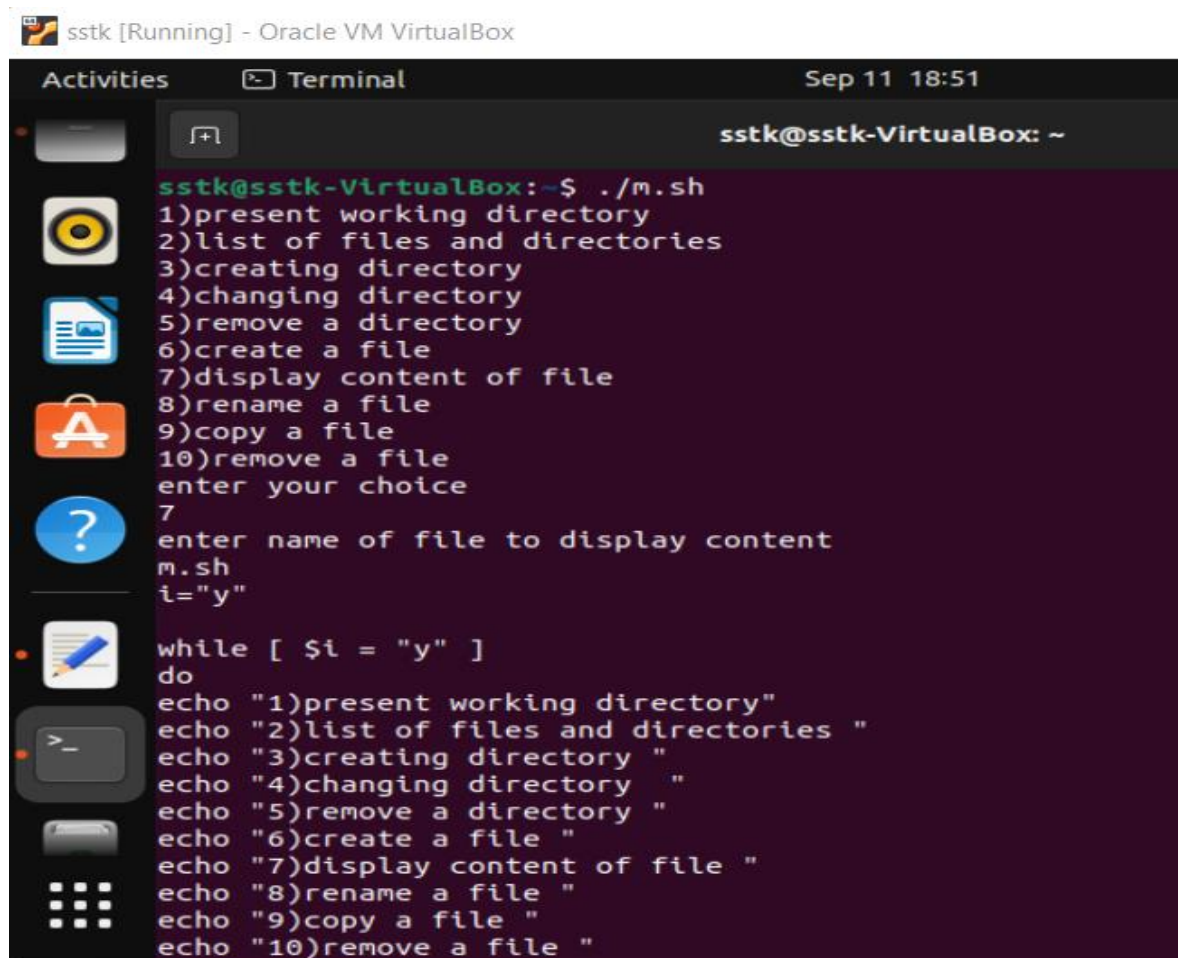
6)create a file



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox" with a date and time of "Sep 11 18:44". The terminal displays the output of a script named "m.sh". The script lists 10 options, and option 6, "create a file", is selected. The user is prompted to enter the name of the file to be created, and "harsh.txt" is entered. The script confirms that the file was created successfully and asks to type 'y' to continue.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
6
created a file
enter name of a file to be created
harsh.txt
file created successfully
type y to continue
y
```

7)display content of file

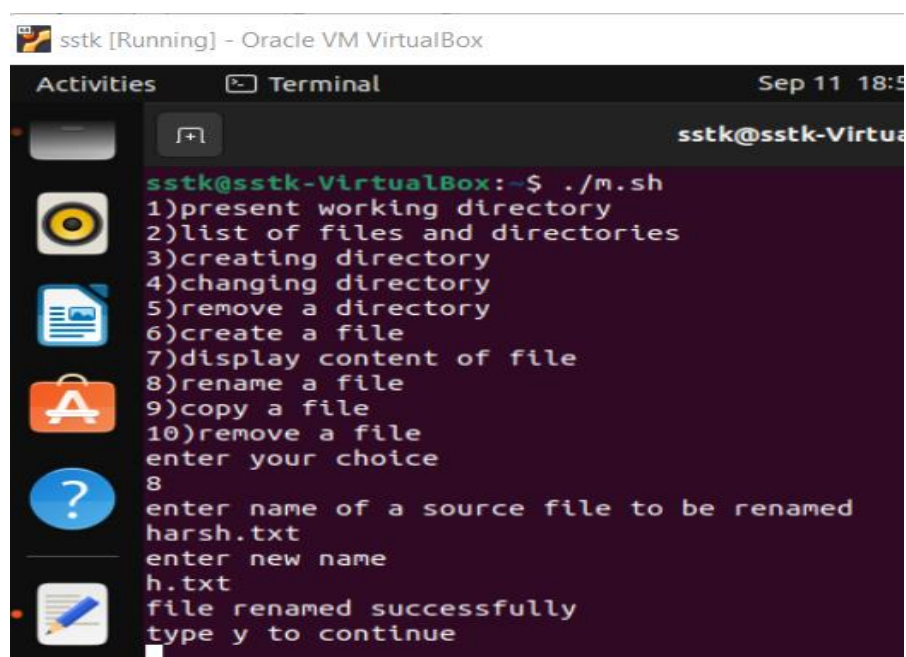


The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox" with a timestamp of "Sep 11 18:51". The terminal displays the output of a script named `./m.sh`. The script lists ten options, and option 7, "display content of file", is selected. The user is prompted to enter the name of the file to display content, and `m.sh` is entered. The script then enters a loop where it echoes the list of options again.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
7
enter name of file to display content
m.sh
i="y"

while [ $i = "y" ]
do
echo "1)present working directory"
echo "2)list of files and directories "
echo "3)creating directory "
echo "4)changing directory "
echo "5)remove a directory "
echo "6)create a file "
echo "7)display content of file "
echo "8)rename a file "
echo "9)copy a file "
echo "10)remove a file "
```

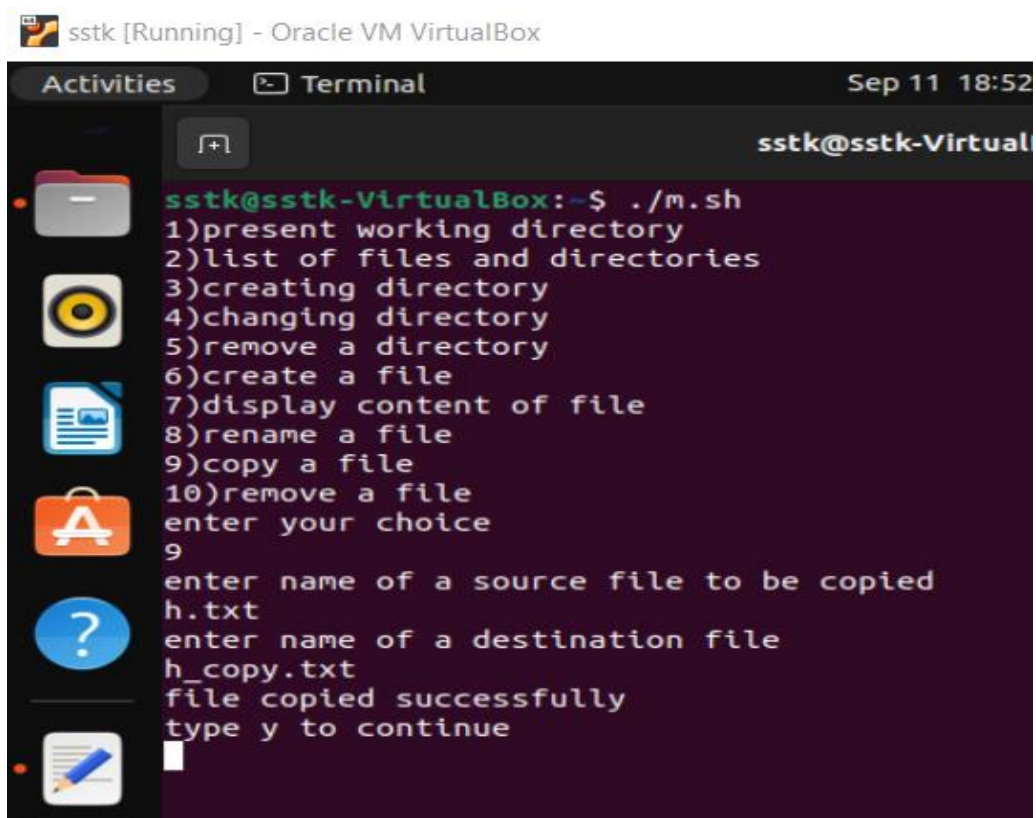
8)rename a file



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox" with a timestamp of "Sep 11 18:51". The terminal displays the output of a script named `./m.sh`. The script lists ten options, and option 8, "rename a file", is selected. The user is prompted to enter the name of a source file to be renamed, and `harsh.txt` is entered. The user is then prompted to enter a new name, and `h.txt` is entered. The script then outputs "file renamed successfully" and prompts the user to type 'y' to continue.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
8
enter name of a source file to be renamed
harsh.txt
enter new name
h.txt
file renamed successfully
type y to continue
```

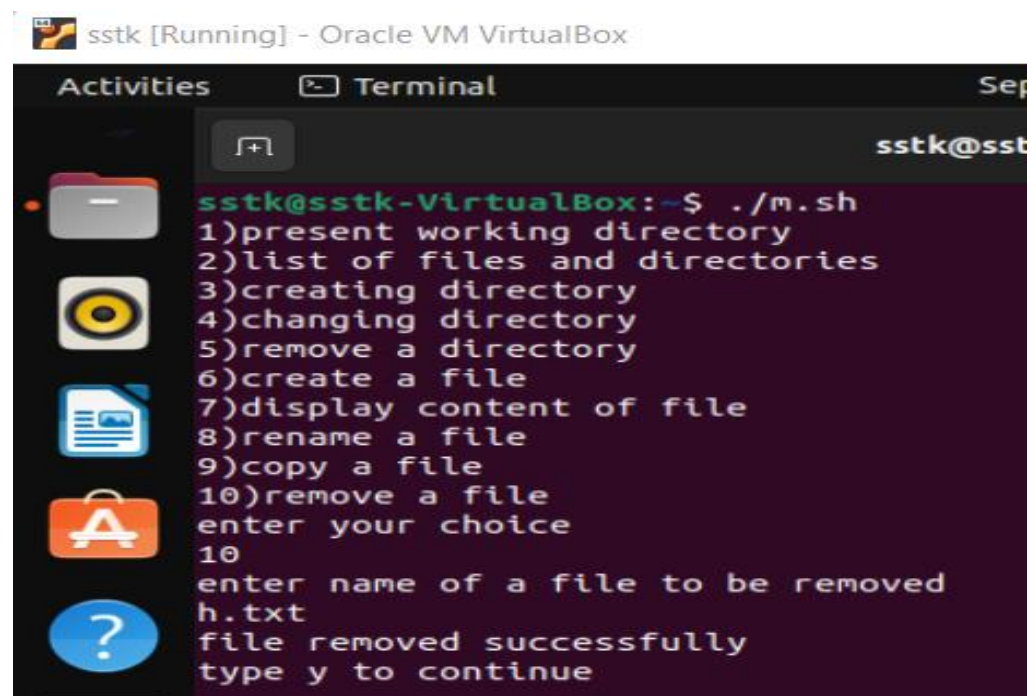
9)copy a file



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox". The terminal output displays a menu of file operations. Option 9, "copy a file", is selected. The user is prompted to enter the source file name "h.txt" and the destination file name "h_copy.txt". The script confirms the file was copied successfully and prompts the user to type 'y' to continue.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
9
enter name of a source file to be copied
h.txt
enter name of a destination file
h_copy.txt
file copied successfully
type y to continue
```

10)remove a file



The screenshot shows a terminal window titled "sstk [Running] - Oracle VM VirtualBox". The terminal output displays the same menu of file operations. Option 10, "remove a file", is selected. The user is prompted to enter the name of the file to be removed, "h.txt". The script confirms the file was removed successfully and prompts the user to type 'y' to continue.

```
sstk@sstk-VirtualBox:~$ ./m.sh
1)present working directory
2)list of files and directories
3)creating directory
4)changing directory
5)remove a directory
6)create a file
7)display content of file
8)rename a file
9)copy a file
10)remove a file
enter your choice
10
enter name of a file to be removed
h.txt
file removed successfully
type y to continue
```