

### Task 3:

```
ibadullah_shaikh@ibadullah:~$ touch file1.c
ibadullah_shaikh@ibadullah:~$ gedit file1.c
ibadullah_shaikh@ibadullah:~$ touch file2.c
ibadullah_shaikh@ibadullah:~$ gedit file2.c
ibadullah_shaikh@ibadullah:~$ gcc -o file1 file1.c
ibadullah_shaikh@ibadullah:~$ gcc -o file2 file2.c
ibadullah_shaikh@ibadullah:~$ ./file1
I love Operating Systems.
ibadullah_shaikh@ibadullah:~$ ./file2
I love Linux.
ibadullah_shaikh@ibadullah:~$ cat file2.c >> file1.c
```

### Task 5:

(a):



The screenshot shows a terminal window titled "Terminal" with the prompt "ibadullah\_shaikh@ibadullah: /usr/bin". The user has navigated to the /usr/bin directory and executed a find command to locate shell scripts. The output shows two files: ./amuFormat.sh and ./gettext.sh. The terminal window is part of a desktop environment with a sidebar showing icons for Firefox, a file manager, and a terminal. The top bar indicates the system is running Ubuntu 20.04 in a VirtualBox and shows the time as 23:10 on March 1st.

```
ibadullah_shaikh@ibadullah:~$ cd /usr/bin
ibadullah_shaikh@ibadullah:/usr/bin$ find -iname "*.sh"
./amuFormat.sh
./gettext.sh
ibadullah_shaikh@ibadullah:/usr/bin$
```

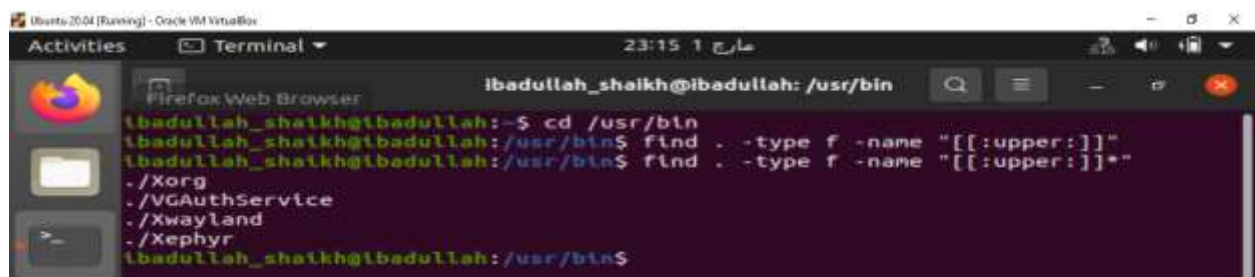
(b):



A terminal window titled 'ibadullah\_shaikh@ibadullah: /home/k190259' with a search bar and menu icon. The terminal shows the following commands and output:

```
ibadullah_shaikh@ibadullah:~$ cd /usr/bin
ibadullah_shaikh@ibadullah:/usr/bin$ find -iname "*.sh"
./amuFormat.sh
./gettext.sh
ibadullah_shaikh@ibadullah:/usr/bin$ cd /home
ibadullah_shaikh@ibadullah:/home$ mkdir k190259
mkdir: cannot create directory 'k190259': Permission denied
ibadullah_shaikh@ibadullah:/home$ sudo mkdir k190259
[sudo] password for ibadullah_shaikh:
Sorry, try again.
[sudo] password for ibadullah_shaikh:
Sorry, try again.
[sudo] password for ibadullah_shaikh:
ibadullah_shaikh@ibadullah:/home$ cd /home/k190259
ibadullah_shaikh@ibadullah:/home/k190259$
```

(c):



A terminal window titled 'ibadullah\_shaikh@ibadullah: /usr/bin' with a search bar and menu icon. The terminal shows the following commands and output:

```
ibadullah_shaikh@ibadullah:~$ cd /usr/bin
ibadullah_shaikh@ibadullah:/usr/bin$ find . -type f -name "[[:upper:]]*"
./Xorg
./VGAAuthService
./Xwayland
./Xephyr
ibadullah_shaikh@ibadullah:/usr/bin$
```

(d):



A terminal window titled 'ibadullah\_shaikh@ibadullah: ~' with a search bar and menu icon. The terminal shows the following commands and output:

```
ibadullah_shaikh@ibadullah:~$ mkdir {letters, Programs, Misc}
ibadullah_shaikh@ibadullah:~$
```

(e):

A screenshot of a Linux terminal window. The window title is "Terminal" and the user is "ibadullah\_shaikh@ibadullah: ~". The terminal shows two failed copy commands. The first command is "cp Letters/\*.c /home/k190259/Programs" and the second is "cp letters/\*.c /home/k190259/Programs". Both commands result in the error message "cp: cannot stat 'Letters/\*.c': No such file or directory" and "cp: cannot stat 'letters/\*.c': No such file or directory" respectively. The terminal background is dark purple, and the text is white. The window has a standard Linux desktop environment with a taskbar on the left showing icons for Firefox, a file manager, and a terminal. The top bar shows the time as 23:20 and the date as 1 مارچ.

```
ibadullah_shaikh@ibadullah:~$ cp Letters/*.c /home/k190259/Programs
cp: cannot stat 'Letters/*.c': No such file or directory
ibadullah_shaikh@ibadullah:~$ cp letters/*.c /home/k190259/Programs
cp: cannot stat 'letters/*.c': No such file or directory
ibadullah_shaikh@ibadullah:~$
```