

Lap2:

1. Create a script that asks for user name then send a greeting to him.

```
#!/bin/bash
echo "Enter Your Name : "
read username
echo "Hello , $username"

ghx@ghx:~$ source newfile
Enter Your Name :
Ghada
Hello , Ghada
ghx@ghx:~$
```

2. Create a script called s1 that calls another script s2 where:

- In s1 there is a variable called x, it's value 5
- Try to print the value of x in s2 by two different ways.

```
#!/usr/bin/bash
x=5
./sh2.sh $x
~
~
```

```
#!/usr/bin/bash

echo "value of x using position argument : $1"
echo "value of x using env variable : $x"
~

ghx@ghx:~$ source sh2
value of x using position argument :
value of x using env variable : 5
```

3. Create a script called mycp where:

- It copies a file to another

```
#!/bin/bash
if [ "$#" -eq 2 ]; then
    cp "$1" "$2"
elif [ "$#" -gt 2 ]; then
    dir_copy="${@: -1}"
    cp "${@:1:$#-1}" "$dir_copy"
else
    echo "something else"
fi
```

```
something else
ghx@ghx:~$ script.sh myfile copydir
ghx@ghx:~$ cd copydir
ghx@ghx:~/copydir$ ls
myfile
```

- b. It copies multiple files to a directory.

```
ghx@ghx:~$ script.sh myfile newfile copydir
ghx@ghx:~$ ls copydir/
myfile newfile
ghx@ghx:~$
```

4. Create a script called mycd where:

- It changed directory to the user home directory, if it is called without arguments.
- Otherwise, it change directory to the given directory.

```
#!/bin/bash
if [ "$#" -eq 0 ]; then
    cd ~
else
    cd "$1"
fi
```

```
ghx@ghx:~$ source mycd.sh Desktop
ghx@ghx:~/Desktop$ course mycd.sh
course: command not found
ghx@ghx:~/Desktop$ source mycd.sh
ghx@ghx:~$
```

5. Create a script called myls where:

- It lists the current directory, if it is called without arguments.
- Otherwise, it lists the given directory.

```
#!/bin/bash
if [ "$#" -eq 0 ]; then
    ls
else
    ls "$1"
fi
```

```
ghx@ghx:~$ chmod +x myls.sh
ghx@ghx:~$ myls.sh
copydir      grading_system.sql  myfile      Public      sr
Desktop      iti_laps                myls.sh     script.sh   st
Documents    Music                  newfile     sh1         Te
Downloads    mycd.sh                Pictures     sh2         te
ghx@ghx:~$ myls.sh Documents
advanced_sql_tasks  rhel-9.5-x86_64-boot.iso
iti-9months         VMware-Workstation-Full-17.6.2-2446
iti-laps
```

6. Enhance the above script to support the following options individually:

- l: list in long format
- a: list all entries including the hiding files.
- d: if an argument is a directory, list only its name
- i: print inode number
- R: recursively list subdirectories

```
#!/bin/bash

ls_command="ls"

opt="$1"
shift

if [[ "$opt" == *"l"* ]]; then
    ls_command+=" -l"
fi
if [[ "$opt" == *"a"* ]]; then
    ls_command+=" -a"
fi
if [[ "$opt" == *"d"* ]]; then
    ls_command+=" -d"
fi
if [[ "$opt" == *"i"* ]]; then
    ls_command+=" -i"
fi
if [[ "$opt" == *"R"* ]]; then
    ls_command+=" -R"
fi

if [ "$#" -eq 0 ]; then
    $ls_command
else
    $ls_command "$1"
fi
```

Bonus: enhance the above script to support the following Synopsis:

mys -option1 -option2

mys -option2 -option1

mys -option1option2

mys -option2option1

7. Create a script called mytest where:

a. It check the type of the given argument (file/directory)

b. It check the permissions of the given argument (read/write/execute)

8. Create a script called myinfo where:

a. It asks the user about his/her logname.

b. It print full info about files and directories in his/her home directory

c. Copy his/her files and directories as much as you can in /tmp directory.

d. Gets his current processes status.