



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

```
#!/bin/bash
echo "what is your name?"
read answer
echo "Welcome $answer."

~

mohamedtorkey@192:~$ vi greating.sh
mohamedtorkey@192:~$ chmod +x greating.sh
mohamedtorkey@192:~$ ./greeting.sh
what is your name?
mohamed torkey
Welcome mohamed torkey.
mohamedtorkey@192:~$
```

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

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

```
#!/bin/bash
x=5
./s2.sh "$x"
~
~
~
```

3.

```
#!/bin/bash
echo "the first method: $1"
z=$1
echo "the second method :${z}"
```

```
mohamedtorkey@192:~$ vi s1.sh
mohamedtorkey@192:~$ chmod +x s1.sh
mohamedtorkey@192:~$ vi s2.sh
mohamedtorkey@192:~$ chmod +x s2.sh
mohamedtorkey@192:~$ ./s1.sh
the first method: 5
./s2.sh: line 7: unexpected EOF while looking for matching `"'
mohamedtorkey@192:~$ vi s2.sh
mohamedtorkey@192:~$ ./s1.sh
the first method: 5
the second method :5
mohamedtorkey@192:~$
```



3. Create a script called mycp where:
 - a. It copies a file to another
 - b. It copies multiple files to a directory.

```
#!/bin/bash

#if we copy file to ather
if [ "$#" -eq 2 ] && [ -f "$#" ]
then
    cp "$1" "$2"
else
    echo "Error:we must enter file"
fi

#here we copy two file only to directry
if [ "$#" -gt 2 ] && [ -d "$3" ]
then
    cp "$1" "$2" "$3"
fi
```

4. Create a script called mycd where:
 - a. It changed directory to the user home directory, if it is called without argument
 - b. Otherwise, it change directory to the given directory.

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

```
mohamedtorkey@192:~$ vi mycd.sh
mohamedtorkey@192:~$ chmod +x mycd.sh
mohamedtorkey@192:~$ ./mycd.sh
mohamedtorkey@192:~$ ./mycd.sh Downloads/
mohamedtorkey@192:~$ . ./mycd.sh Downloads/
mohamedtorkey@192:~/Downloads$
```



5. Create a script called myls where:

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

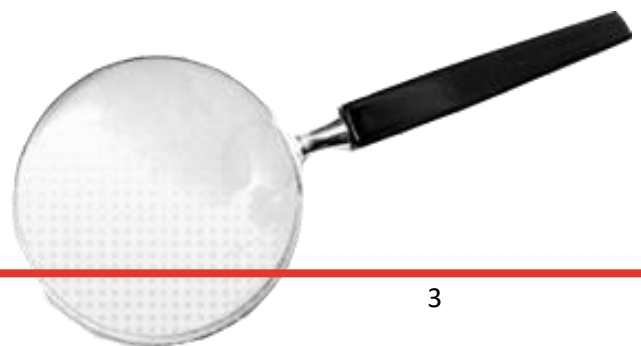
```
#!/bin/bash

if [ "$#" -eq 0 ]
then
    ls
else
    ls $1
fi

mohamedtorkey@192:~$ ./mysls.sh
Downloads f1 f3 mycd.sh myls.sh s2.sh الفيديو المستندك 'سطح المكتب
f f2 greating.sh mycp.sh sl.sh عام الصور القوالب الموسيقى
mohamedtorkey@192:~$ ./mysls.sh Downloads/
f1 f2 f3 lab1.html lab1.pdf lab2.pdf 'Shell Script-Day Two.pdf'
mohamedtorkey@192:~$
```

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 subdirectorie



```
#!/bin/bash

if [ "$#" -eq 1 ]
then
    if [ "$1" == "-l" ]
    then
        ls -l
    elif [ "$1" == "-a" ]
    then
        ls -a
    elif [ "$1" == "-d" ]
    then
        ls -d
    elif [ "$1" == "-i" ]
    then
        ls -i
    elif [ "$1" == "-R" ]
    then
        ls -R
    else
        ls $1
    fi
elif [ "$#" -eq 0 ]
then
    ls $1
fi
```

```
mohamedtorkey@192:~$ ./mys.sh -a
.                .bashrc      f1                .mozilla        s2.sh            الموسيقى
..              .cache       f2                mycd.sh         الصور
.bash_history    .config     f3                mycp.sh         الفيديو
.bash_logout     Downloads  greating.sh      myls.sh         القوائم
.bash_profile     f          .local           sl.sh           المستندات

mohamedtorkey@192:~$ ./mys.sh -i
284 Downloads 3868 greating.sh 6295 s2.sh 288 الموسيقى
6310 f 7195 mycd.sh 289 'سطح المكتب' 283 الصور
7431 f1 7857 mycp.sh 290 عام 286 الفيديو
7432 f2 8120 myls.sh 285 القوائم
7433 f3 6227 sl.sh 287 المستندات

mohamedtorkey@192:~$
```

