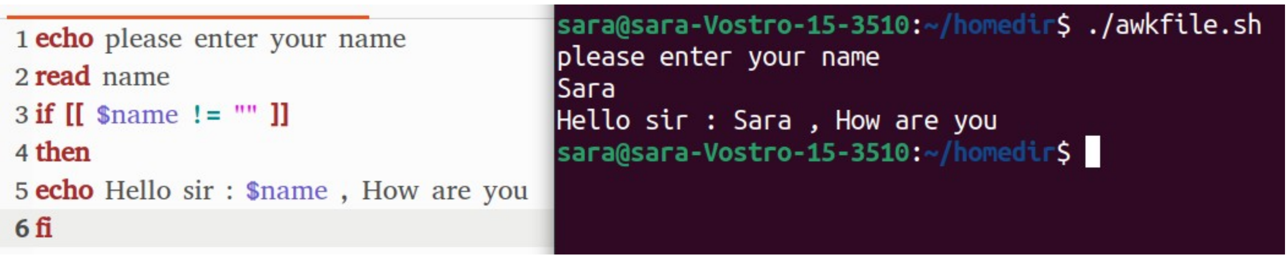
# My Name :Sara Gamal Mohammed

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



```
echo please enter your name
read name
if [[ $name != "" ]]
then
echo Hello sir : $name , How are you
fi
```

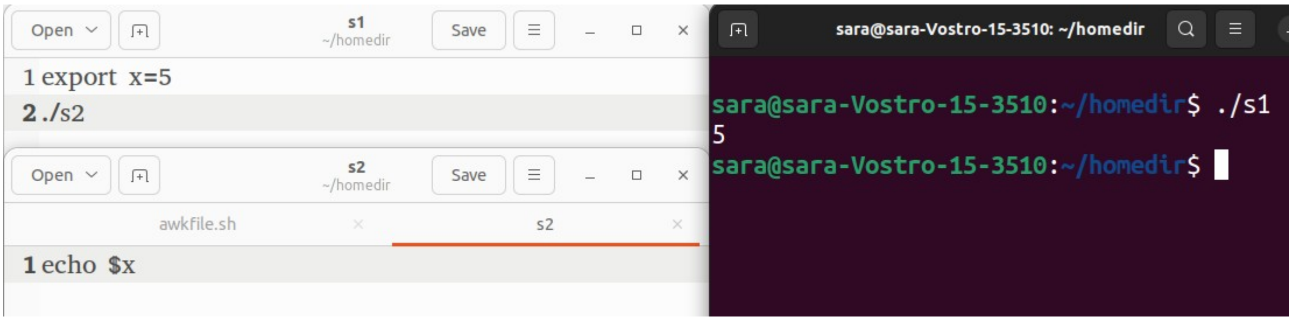
```
sara@sara-Vostro-15-3510:~/homedir$ ./awkfile.sh
please enter your name
Sara
Hello sir : Sara , How are you
sara@sara-Vostro-15-3510:~/homedir$ 
```

## 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.

## First way



s1:

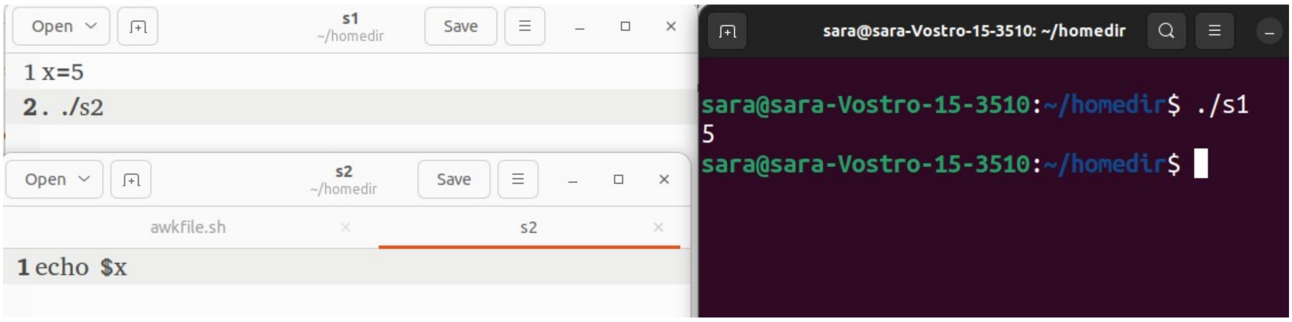
```
export x=5
./s2
```

s2:

```
echo $x
```

```
sara@sara-Vostro-15-3510:~/homedir$ ./s1
5
sara@sara-Vostro-15-3510:~/homedir$ 
```

## Second way



s1:

```
x=5
. ./s2
```

s2:

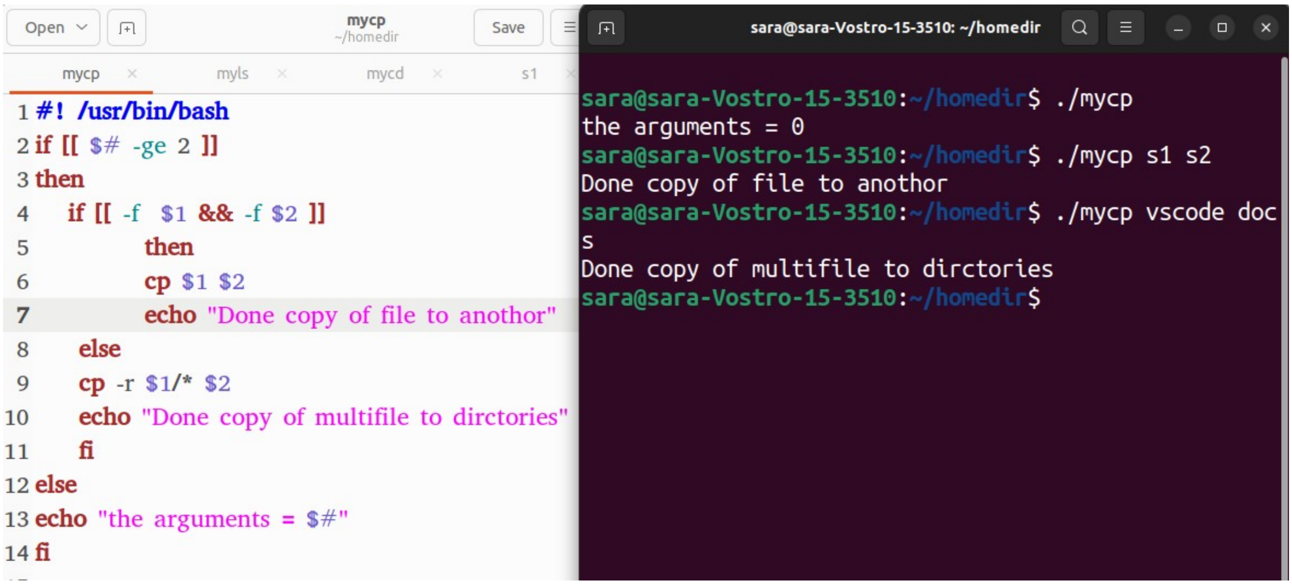
```
echo $x
```

```
sara@sara-Vostro-15-3510:~/homedir$ ./s1
5
sara@sara-Vostro-15-3510:~/homedir$ 
```

**3. Create a script called mycp where:**

a. It copies a file to another

b. It copies multiple files to a directory.



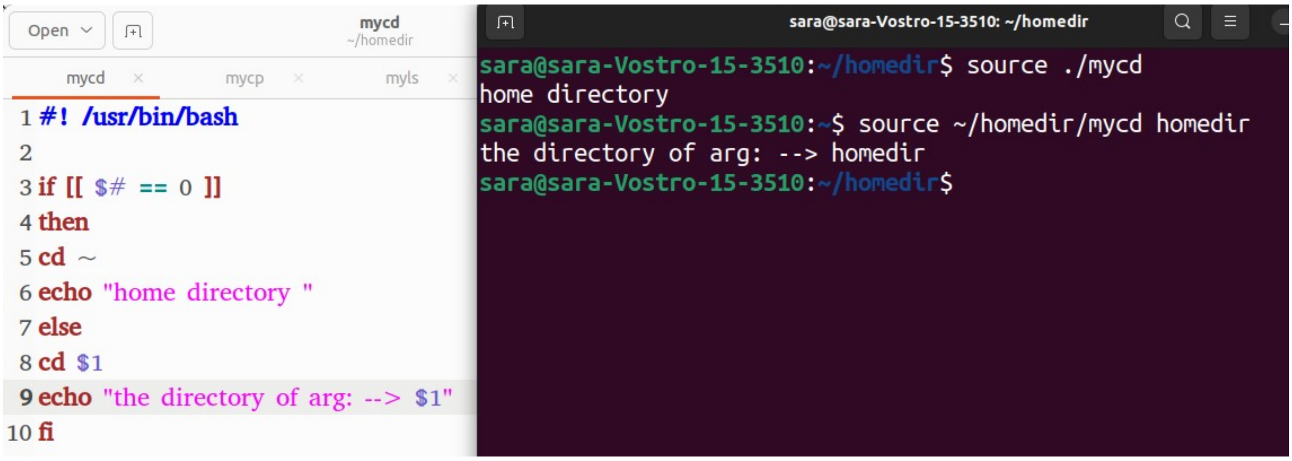
```
#! /usr/bin/bash
if [[ $# -ge 2 ]]
then
  if [[ -f  $1 && -f $2 ]]
         then
         cp $1 $2
         echo "Done copy of file to anothor"
   else
   cp -r $1/* $2
   echo "Done copy of multifile to dirctories"
   fi
else
echo "the arguments = $#"
fi
```

```
sara@sara-Vostro-15-3510:~/homedir$ ./mycp
the arguments = 0
sara@sara-Vostro-15-3510:~/homedir$ ./mycp s1 s2
Done copy of file to anothor
sara@sara-Vostro-15-3510:~/homedir$ ./mycp vscode doc
s
Done copy of multifile to dirctories
sara@sara-Vostro-15-3510:~/homedir$
```

**4. Create a script called mycd where:**

a. It changed directory to the user home directory, if it is called without arguments.

b. Otherwise, it change directory to the given directory.



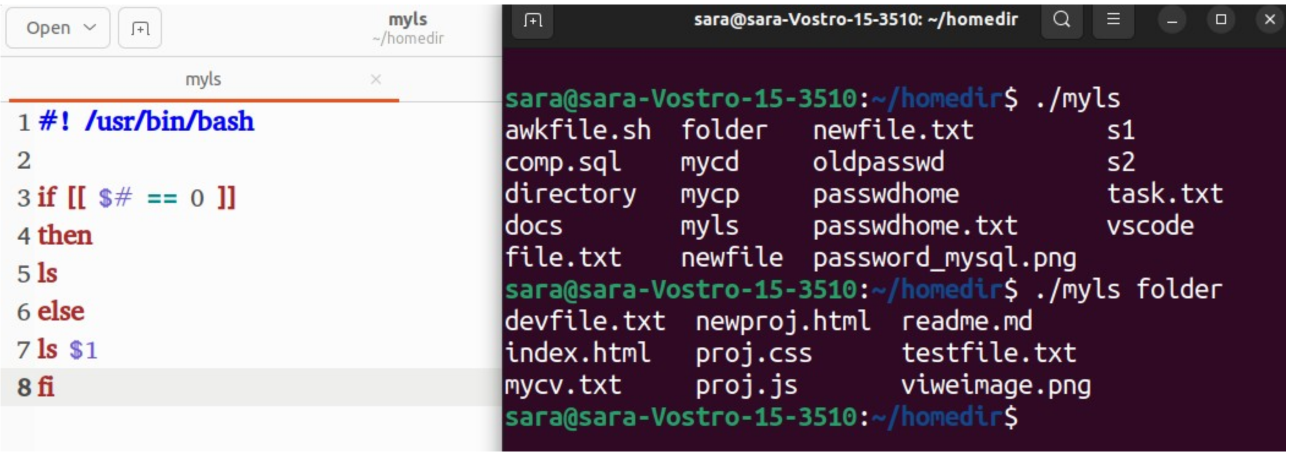
```
#! /usr/bin/bash

if [[ $# == 0 ]]
then
cd ~
echo "home directory "
else
cd $1
echo "the directory of arg: --> $1"
fi
```

```
sara@sara-Vostro-15-3510:~/homedir$ source ./mycd
home directory
sara@sara-Vostro-15-3510:~$ source ~/homedir/mycd homedir
the directory of arg: --> homedir
sara@sara-Vostro-15-3510:~/homedir$
```

**5. Create a script called myls where:**

a. It lists the current directory, if it is called without arguments.

b. Otherwise, it lists the given directory.

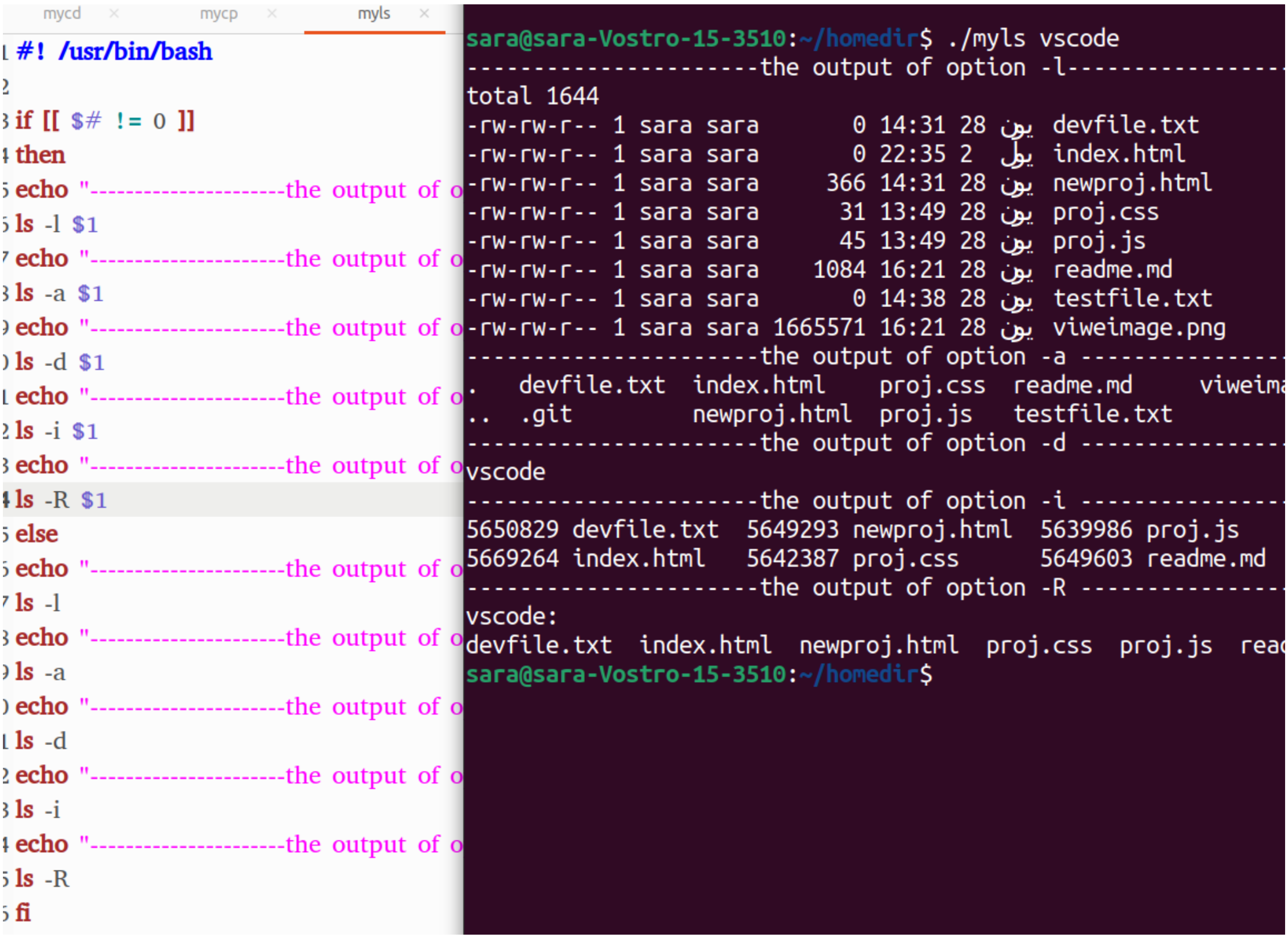


```
#! /usr/bin/bash

if [[ $# == 0 ]]
then
ls
else
ls $1
fi
```

```
sara@sara-Vostro-15-3510:~/homedir$ ./myls
awkfile.sh  folder   newfile.txt        s1
comp.sql    mycd     oldpasswd          s2
directory   mycp     passwdhome         task.txt
docs        myls     passwdhome.txt     vscode
file.txt    newfile  password_mysql.png
sara@sara-Vostro-15-3510:~/homedir$ ./myls folder
devfile.txt  newproj.html  readme.md
index.html   proj.css      testfile.txt
mycv.txt     proj.js       viweimage.png
sara@sara-Vostro-15-3510:~/homedir$
```

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

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



```
#! /usr/bin/bash

if [[ $# != 0 ]]
then
echo "---------------------the output of o
ls -l $1
echo "---------------------the output of o
ls -a $1
echo "---------------------the output of o
ls -d $1
echo "---------------------the output of o
ls -i $1
echo "---------------------the output of o
ls -R $1
else
echo "---------------------the output of o
ls -l
echo "---------------------the output of o
ls -a
echo "---------------------the output of o
ls -d
echo "---------------------the output of o
ls -i
echo "---------------------the output of o
ls -R
fi
```

```
sara@sara-Vostro-15-3510:~/homedir$ ./myls vscode
----------------------the output of option -l----------------
total 1644
-rw-rw-r-- 1 sara sara       0 14:31 28 يون  devfile.txt
-rw-rw-r-- 1 sara sara       0 22:35 2  يول  index.html
-rw-rw-r-- 1 sara sara     366 14:31 28 يون  newproj.html
-rw-rw-r-- 1 sara sara      31 13:49 28 يون  proj.css
-rw-rw-r-- 1 sara sara      45 13:49 28 يون  proj.js
-rw-rw-r-- 1 sara sara    1084 16:21 28 يون  readme.md
-rw-rw-r-- 1 sara sara       0 14:38 28 يون  testfile.txt
-rw-rw-r-- 1 sara sara 1665571 16:21 28 يون  viweimage.png
----------------------the output of option -a ---------------
.   devfile.txt  index.html    proj.css  readme.md     viweima
..  .git         newproj.html  proj.js   testfile.txt
----------------------the output of option -d ---------------
vscode
----------------------the output of option -i ---------------
5650829 devfile.txt  5649293 newproj.html  5639986 proj.js
5669264 index.html   5642387 proj.css      5649603 readme.md
----------------------the output of option -R ---------------
vscode:
devfile.txt  index.html  newproj.html  proj.css  proj.js  reac
sara@sara-Vostro-15-3510:~/homedir$
```