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

```
 # ! /bin/bash
echo "Enter your Name: “
read name
echo "Hello , $name"
```

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
export x
source s2.sh
. /s2.sh $x
```

```
# ! /bin/bash
echo "The value of x is $x"
```

3- Create a script called mycp where:

a. It copies a file to another
b. It copies multiple files to a directory.

```
# ! /bin/bash
Echo "Enter file/directory of files”
read target

if [-f $target ]
then
    cp $target  file.txt
else
    cp $target/*. txt dir2/
fi
```

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.

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

---

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.

```
# ! /bin/bash
echo "Enter Option with ls: “
read opt
if [ $# -eq 0 ]
then
   ls $opt
else
  ls $1 $opt
fi
```

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

```
# ! /bin/bash
echo "Enter Option with Is:”
read opt

if [ $# -eq  0 ]
then
   Is $opt
else
   Is $1 $opt
fi
```

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

myls -option1 –option2

myls –option2 –option1

myls –option1option2

myls –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)

```
#!/bin/bash
if [ -f $1]
then
  echo "File"
fi

if [ -d $1]
then
  echo "Dir"
fi

if [ -r $1]
then
  echo "Readable"
fi

if [ -w $1 ]
then
  echo "Writable"
fi

if [ -x $1 ]
then
  echo "Executable"
fi
```

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.

```
#!/bin/bash
echo "Enter your logname: “
read logname

echo "Files and dirs in home directory"
ls -l ~

echo "copying files and directories to temp dir"
mkdir tmp
cp  -r  ~/*   /tmp

echo "Current process status: “
ps aux | grep $logname
```