

Assignment 4

I affirm that my work upholds the highest standards of honesty and academic integrity at Wittenberg and that I have neither given nor received unauthorized assistance.

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Document Layout

1. Shell files
2. Questions asked
3. Code for each question

all.sh

```
GNU nano 4.8
#!/bin/bash

#this is a comment

echo The calling program is $0
echo $1 $2 $3 $4 $5
```

myname.sh

```
GNU nano 4.8
#!/bin/bash

echo $0
echo -n "Enter your name: "
read ustring
echo "Hello " $ustring
```

myname2.sh

```
#!/bin/bash

echo $0
echo -n "Enter your string: "
read ustring
echo $ustring > $$name
```

looper.sh

```
GNU nano 4.8
#!/bin/bash

for arg
do
    echo $arg
done
```

looper2.sh

```
GNU nano 4.8
#!/bin/bash

for arg in "alist" "blist" "clist"
do
    echo $arg
done
```

if then.sh

```
#!/bin/bash

echo -n ">>"

read userInput

#this took 43 minutes to figure out!!
#ahhhhhhhhhh
if [ "$userinput" == "" ]
then
    echo "Where is your input?"
else
    echo "You entered:" "$userinput"
fi
```

echomyvar.sh

```
GNU nano 4.8
#!/bin/bash

echo "The PID is " $$
echo "The process running the script is " $0
```

Answers to questions asked in the PDF:

- 2. It says that is is “./linkto” instead of how it was before with “./all.sh”
- 7. You put brackets with spaces so it knows that grouping to answer everything in.
- 8A. ./echomyvar.sh Also they are running the different processes.
- 8B: No, because if you run this again then the value is not set permanently, it just is that way the one time you use it again.
- 8C. It does not display because it is not set in the interactive shell.
- 8D: The PID is different.

Question 1:

```
thomas@thomas-VirtualBox:~$ nano all.sh
thomas@thomas-VirtualBox:~$ chmod 777 all.sh
thomas@thomas-VirtualBox:~$ ./all.sh
The calling program is ./all.sh
```

```
thomas@thomas-VirtualBox:~$ ./all.sh "hello" "thomas" "testing" "arg 1" "last arg needed"
The calling program is ./all.sh
hello thomas testing arg 1 last arg needed
```

Question 2:

```
thomas@thomas-VirtualBox:~$ ls
all.sh  Desktop Downloads first.bak long.sh      Music  myname.sh.save Pictures short.sh 'two words'
welcome.sh
cptobak.sh Documents ex1      first.sh mashexamples myname.sh part6      Public Templates
Videos
thomas@thomas-VirtualBox:~$ ln -s all.sh linkto
thomas@thomas-VirtualBox:~$ ls
all.sh  Desktop Downloads first.bak linkto      mashexamples myname.sh      part6  Public
Templates Videos
cptobak.sh Documents ex1      first.sh long.sh Music          myname.sh.save Pictures short.sh 'two
words' welcome.sh
thomas@thomas-VirtualBox:~$ ./linkto
The calling program is ./linkto

thomas@thomas-VirtualBox:~$ ./linkto "thomas" "second arg"
The calling program is ./linkto
thomas second arg
```

Question 3:

```
thomas@thomas-VirtualBox:~$ nano myname.sh
thomas@thomas-VirtualBox:~$ chmod 777 myname.sh
thomas@thomas-VirtualBox:~$ ./myname.sh
./myname.sh
Enter your name: Thomas the amazing
Hello Thomas the amazing
thomas@thomas-VirtualBox:~$
```

Question 4:

```
thomas@thomas-VirtualBox:~$ cp myname.sh myname2.sh
thomas@thomas-VirtualBox:~$ ls
all.sh  Desktop Downloads first.bak linkto      mashexamples myname2.sh myname.sh.save Pictures
short.sh 'two words' welcome.sh
cptobak.sh Documents ex1      first.sh long.sh Music          myname.sh      part6      Public
Templates Videos
thomas@thomas-VirtualBox:~$ nano myname2.sh
thomas@thomas-VirtualBox:~$ ./myname2.sh
./myname2.sh
Enter your string: Hello, this is my string and this is a test.
thomas@thomas-VirtualBox:~$ ls
2474.name cptobak.sh Documents ex1      first.sh long.sh      Music  myname.sh      part6
Public Templates Videos
all.sh  Desktop Downloads first.bak linkto      mashexamples myname2.sh myname.sh.save
Pictures short.sh 'two words' welcome.sh
thomas@thomas-VirtualBox:~$ cat 2474.name
Hello, this is my string and this is a test.
```

Question 5:

```
thomas@thomas-VirtualBox:~$ nano looper.sh
thomas@thomas-VirtualBox:~$ chmod 777 looper.sh
thomas@thomas-VirtualBox:~$ ./looper.sh
thomas@thomas-VirtualBox:~$ ./looper.sh "qwert" "asdfg" "zxcvb"
qwert
asdfg
zxcvb
```

Question 6:

```
thomas@thomas-VirtualBox:~$ cp looper.sh looper2.sh
thomas@thomas-VirtualBox:~$ ls
2474.name  cptobak.sh  Documents  ex1          first.sh  long.sh  looper.sh      Music  myname.sh
part6     Public     Templates  Videos
all.sh    Desktop    Downloads  first.bak  linkto    looper2.sh  mashexamples  myname2.sh
myname.sh.save  Pictures  short.sh  'two words'  welcome.sh
thomas@thomas-VirtualBox:~$ nano looper2.sh
thomas@thomas-VirtualBox:~$ chmod 777 looper2.sh
thomas@thomas-VirtualBox:~$ ./looper2.sh
alist
blist
clist
```

Question 7:

```
thomas@thomas-VirtualBox:~$ nano ifthen.sh
thomas@thomas-VirtualBox:~$ chmod 777 ifthen.sh
thomas@thomas-VirtualBox:~$ ./ifthen.sh
>>thomas
You entered: thomas
thomas@thomas-VirtualBox:~$ ./ifthen.sh
>>
Where is your input?
```

Question 8 A:

```
thomas@thomas-VirtualBox:~$ nano echomyvar.sh
thomas@thomas-VirtualBox:~$ nano echomyvar.sh
thomas@thomas-VirtualBox:~$ chmod 777 echomyvar.sh
thomas@thomas-VirtualBox:~$ ./echomyvar.sh
The PID is 3425
The process running the script is ./echomyvar.sh
value is
```

Question 8 B:

```
thomas@thomas-VirtualBox:~$ myvar=thomas ./echomyvar.sh
The PID is 1564
The process running the script is ./echomyvar.sh
value is thomas
thomas@thomas-VirtualBox:~$ myvar=ThisIsATest! ./echomyvar.sh
The PID is 1566
The process running the script is ./echomyvar.sh
value is ThisIsATest!
```

Question 8 C:

```
thomas@thomas-VirtualBox:~$ myvar=thisisthevalueofmyvar
thomas@thomas-VirtualBox:~$ ./echomyvar.sh
The PID is 1915
The process running the script is ./echomyvar.sh
value is
thomas@thomas-VirtualBox:~$
```

Question 8 D:

```
thomas@thomas-VirtualBox:~$ export myvar
thomas@thomas-VirtualBox:~$ ./echomyvar.sh
The PID is 1930
The process running the script is ./echomyvar.sh
value is thisisthevalueofmyvar
```

Question 8 E:

```
thomas@thomas-VirtualBox:~$ export | grep myvar
declare -x myvar="thisisthevalueofmyvar"
```

Question 8 F:

```
thomas@thomas-VirtualBox:~$ export -n myvar
thomas@thomas-VirtualBox:~$ echo $myvar
thisisthevalueofmyvar
thomas@thomas-VirtualBox:~$ ./echomyvar.sh
The PID is 1950
The process running the script is ./echomyvar.sh
value is
```

Question 8 G:

```
thomas@thomas-VirtualBox:~$ unset myvar
thomas@thomas-VirtualBox:~$ echo $myvar
```

(nothing comes out above)