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 figurre out!!
#ahhhhhhhhh
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)