if [ -x $file ]

then

echo “ $file”

fi

$ cat test25

#!/bin/bash

# finding files in the PATH

IFS=:

for folder in $PATH

do

echo “$folder:”

for file in $folder/\*

do

if [ -x $file ]

then

echo “ $file”

fi

done

done

$

while IFS=‘,’ read –r userid name

$ cat test26

#!/bin/bash

# process new user accounts

input=“users.csv”

while IFS=‘,’ read -r userid name

do

echo “adding $userid”

useradd -c “$name” -m $userid

done < “$input”

$

for var in *list*

do

*commands*

done

$ cat test1

#!/bin/bash

# basic for command

for test in Alabama Alaska Arizona Arkansas California Colorado

do

echo The next state is $test

done

$ ./test1

The next state is Alabama

The next state is Alaska

The next state is Arizona

The next state is Arkansas

The next state is California

The next state is Colorado

$

$ cat badtest1

#!/bin/bash

# another example of how not to use the for command

for test in I don't know if this'll work

do

echo “word:$test”

done

$ ./badtest1

word:I

word:dont know if thisll

word:work

$ cat test2

#!/bin/bash

# another example of how not to use the for command

for test in I don\'t know if “this'll” work

do

echo “word:$test”

done

$ ./test2

word:I

word:don't

word:know

word:if

word:this'll

word:work

$

$ cat test4

#!/bin/bash

# using a variable to hold the list

list=“Alabama Alaska Arizona Arkansas Colorado”

list=$list“ Connecticut”

for state in $list

do

echo “Have you ever visited $state?”

done

$ ./test4

Have you ever visited Alabama?

Have you ever visited Alaska?

Have you ever visited Arizona?

Have you ever visited Arkansas?

Have you ever visited Colorado?

Have you ever visited Connecticut

$

**Internal Field Separator** (IFS

$ cat test6

#!/bin/bash

# iterate through all the files in a directory

for file in /home/rich/test/\*

do

if [ -d “$file” ]

then

echo “$file is a directory”

elif [ -f “$file” ]

then

echo “$file is a file”

fi

done

$ ./test6

/home/rich/test/dir1 is a directory

/home/rich/test/myprog.c is a file

/home/rich/test/myprog is a file

/home/rich/test/myscript is a file

/home/rich/test/newdir is a directory

/home/rich/test/newfile is a file

/home/rich/test/newfile2 is a file

/home/rich/test/testdir is a directory

/home/rich/test/testing is a file

/home/rich/test/testprog is a file

/home/rich/test/testprog.c is a file

$

$ cat test7

#!/bin/bash

# iterating through multiple directories

for file in /home/rich/.b\* /home/rich/badtest

do

if [ -d “$file” ]

then

echo “$file is a directory”

elif [ -f “$file” ]

then

echo “$file is a file”

else

echo “$file doesn't exist”

fi

done

$ ./test7

/home/rich/.backup.timestamp is a file

/home/rich/.bash\_history is a file

/home/rich/.bash\_logout is a file

/home/rich/.bash\_profile is a file

/home/rich/.bashrc is a file

/home/rich/badtest doesn't exist

$

**cat test2.sh**

#!/bin/bash

# testing a bad command

if IamNotaCommand

then

echo “It worked”

fi

echo “We are outside the if statement”

$

$ **./test2.sh**

./test2.sh: line 3: IamNotaCommand: command not found

We are outside the if statement

$ **cat test3.sh**

#!/bin/bash

# testing multiple commands in the then section

#

testuser=Christine

#

if grep $testuser /etc/passwd

then

echo “This is my first command”

echo “This is my second command”

echo “I can even put in other commands besides echo:”

ls -a /home/$testuser/.b\*

fi

$