

LPIC-1 102-400 – Lesson 2 – Lab

- * Enter into your Lab environment
- `$ cat > many.sh << EOF # create a script file`

```
cd \${1}
ls -la
pwd
echo $$
EOF
```
- `$ source many.sh /etc # run it with source`
- `$. many.sh /etc # same as above but using a "."`
- `$ bash many.sh /etc # similar but runs in a child shell`
- `$ chmod a+x many.sh # make the file executable`
- `$ ls -l many.sh # verify`
- `$ many.sh /etc # did it work?`
- `$./many.sh /etc # how about now?`
- `$ ~/many.sh /usr # same but using an absolute path`
- `$ $HOME/many.sh /var # same`
- `$ /home/user/many.sh /tmp # same`



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- `$ vi many.sh # edit many.sh and add a bash shebang at the first line`
- `$ KERNEL_VER=`uname -r` # define a variable using command substitution`
- `$ grep -i linux $(find /usr/share/doc \ -name "*.txt") # run grep on the output files of find`
- `$ echo $EDITOR # is EDITOR defined?`
- `$ $(export EDITOR=nano) # export EDITOR with command substitution`
- `$ echo $EDITOR # is EDITOR defined?`
- `$ test $EDITOR ; echo $? # exit status`
- `$ export EDITOR=vi # export EDITOR to the environment`
- `$ echo $EDITOR # is it defined now?`
- `$ test $EDITOR ; echo $? # exit status?`



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- `$ touch /tmp/dummy.file # create an empty file`
- `$ if grep tobedeleted /tmp/dummy.file # run a test against it`
then
 `rm -f /tmp/dummy.file`
elif ["\$?" = 1]
then
 `echo "dummy.file not to be \ deleted\!";`
 `else echo "Error in grep\!"`
fi
- `$ echo "tobedeleted" >> \ /tmp/dummy.file # add some content`
to it
- `$ if grep tobedeleted /tmp/dummy.file # run the test again`
then
 `rm -f /tmp/dummy.file`
elif ["\$?" = 1]
then
 `echo "dummy.file not to be \ deleted\!";`
 `else echo "Error in grep\!"`
fi
- `$ ls -l /tmp/dummy.file # still there?`



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- ```
$ if grep tobedeleted /tmp/dummy.file; then # run another test
 rm -f /tmp/dummy.file
 elif ["$?" = 1]
 then
 echo "dummy.file not to be \ deleted\!";
 else echo "Error in grep\!"
 fi
```
- ```
$ SUM=0 # set SUM to 0
```
- ```
$ for I in $(seq 1 30) # run some math with for
do
 SUM=`expr $I + $SUM`
 if ["$I" -eq 30]
 then
 echo "Sum is $SUM"
 fi
done
```

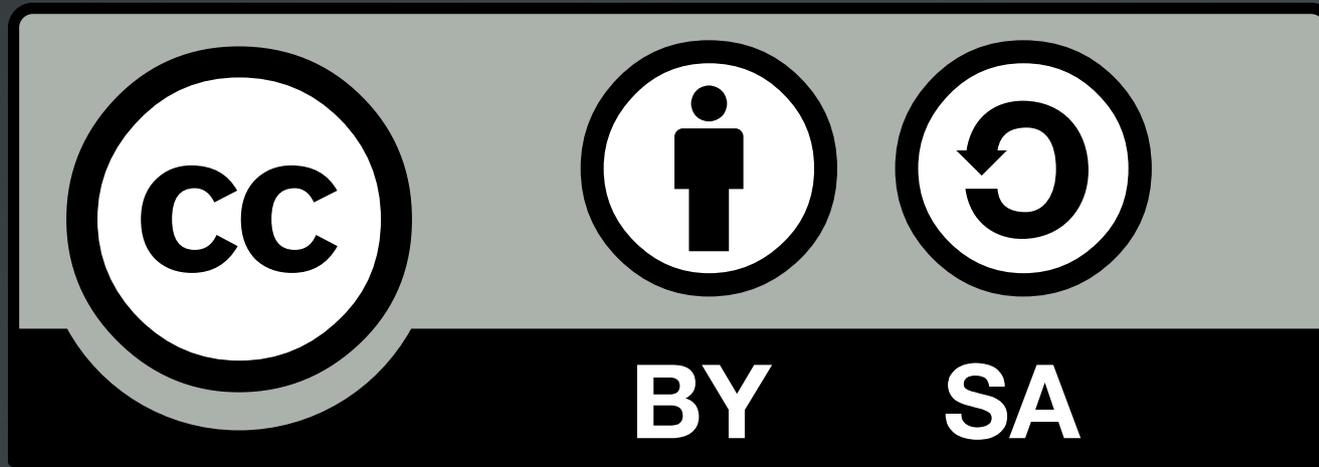


# Lesson 2 – Lab

- ```
$ while [ "$VAR" != "end" ] # create an interactive shell with
# while
do
  echo "Input VAR: (end to exit) "
  read VAR
  echo "\$VAR = $VAR"
done
```



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