**OUTPUTS**

**HW7 “DEBUGGING”**

irinas-MacBook-Pro:IrinaGolovko\_HW7\_debugging irinagolovko$ cat alias\_function\_library.sh

#!/bin/bash

# Irina Golovko

# Hw# 7 alias\_function\_library for assignment # 7

output\_extension () {

extension=$(echo $filename | cut -f 2 -d '.')

echo "Extension of the given filename $filename is: $extension"

}

output\_baseName () {

fullfilename="$1"

filename=$(basename "$fullfilename")

base\_Name=${filename%.\*}

echo "Filename without Path: $filename"

echo "Base\_Name of the given filename $filename is: $base\_Name"

}

setval() {

local \_\_resultvar=$1

local myresult=1000

eval $\_\_resultvar="'$myresult'"

}

clean\_up () {

echo "Congratulations!!!"

echo "You are cleaning things up"

}

alias dirW='echo Working directory is $PWD'

alias ll='ls -l $dir'

alias l='dirW | ll'

alias setthat='setval that'

irinas-MacBook-Pro:IrinaGolovko\_HW7\_debugging irinagolovko$ cat running.sh

#!/bin/bash

# Irina Golovko

# Hw# 7

# using script alias\_function\_library

# First we have to expand aliases in order to execute script with ./

# In other way we have to use command source for executing script

shopt -s expand\_aliases

source /Users/irinagolovko/Desktop/alias\_function\_library.sh

# We will illustrate the trap command before the program exits

# when a user hits Control-C

# The trap command will ignore INT, signal 2, the interrupt key (^C).

# If ^C is pressed, the message "Ctrl-C will not terminate the running process"

# is printed, and the script continues forever.

# The script can be killed with the kill command or Ctrl^Z and etc.

trap '' 2

trap 'echo " Ctrl-C will not terminate the running process."' 2

echo "Enter any string after the prompt"

for i in 1 2 3

do

echo -n "Go ahead...> "

read

done

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

# Set value to variable that using alias setthat and function setval

setval that

echo "Value of variable that is: $that"

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

# using alias dirW=echo Working directory is $PWD'

# for finding working directory

dirW

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

# list of all files in working directory using alias l='dirW | ll'

echo "Files in working directory"

l

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

# files in given directory $dir with alias ll='ls -l $dir'

dir="/Users/irinagolovko/Documents/Unix/ShellScript/HW/lab"

echo "files in given directory $dir"

ll

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

# using alias ll='ls -l $dir' and function output\_extension

# and output\_baseName for finding filename and extensions

# of files in the given directory.

echo "Full File names, base name and name without extension"

for file in $(ll)

do

if [ -d ${dir}/${file} ]; then

echo "${dir}/${file} is a subdirectory"

elif [ -f ${dir}/${file} ]; then

output\_baseName $file

output\_extension $file

fi

done

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

# using trap and clean\_up function to be sure that all unnecessary

# temporary stuff is gone

trap clean\_up EXIT

**OUTPUTS without debugging:**

irinas-MacBook-Pro:IrinaGolovko\_HW7\_debugging irinagolovko$ ./running.sh

Enter any string after the prompt

Go ahead...> dfghr dghr

Go ahead...> ^C Ctrl-C will not terminate the running process.

Go ahead...> dfgh fghj

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Value of variable that is: 1000

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Working directory is /Users/irinagolovko/Documents/Unix/ShellScript/HW/IrinaGolovko\_HW7\_debugging

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Files in working directory

total 24

-rwxr-xr-x@ 1 irinagolovko staff 735 May 14 17:04 alias\_function\_library.sh

-rwxr-xr-x@ 1 irinagolovko staff 2189 May 14 17:09 running.sh

-rwxr-xr-x@ 1 irinagolovko staff 2371 May 14 16:28 running\_debugg.sh

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

files in given directory /Users/irinagolovko/Documents/Unix/ShellScript/HW/lab

total 56

-rwxr-xr-x@ 1 irinagolovko staff 1792 Apr 27 03:08 Hw4\_1.sh

-rwxr-xr-x@ 1 irinagolovko staff 916 Apr 27 09:47 Hw4\_2.sh

-rwxr-xr-x@ 1 irinagolovko staff 1023 Apr 27 09:49 Hw4\_3.sh

drwxr-xr-x 5 irinagolovko staff 170 Apr 27 08:58 dir1

drwxr-xr-x 4 irinagolovko staff 136 Apr 27 09:14 dir2

-rw-r--r-- 1 irinagolovko staff 510 Apr 27 09:49 dirs.list

-rw-r--r-- 1 irinagolovko staff 35 Apr 27 09:49 dirs.txt

-rw-r--r-- 1 irinagolovko staff 1848 Apr 27 09:49 files.list

-rw-r--r-- 1 irinagolovko staff 8 Apr 27 09:22 files.txt

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Full File names, base name and name without extension

Filename without Path: Hw4\_1.sh

Base\_Name of the given filename Hw4\_1.sh is: Hw4\_1

Extension of the given filename Hw4\_1.sh is: sh

Filename without Path: Hw4\_2.sh

Base\_Name of the given filename Hw4\_2.sh is: Hw4\_2

Extension of the given filename Hw4\_2.sh is: sh

Filename without Path: Hw4\_3.sh

Base\_Name of the given filename Hw4\_3.sh is: Hw4\_3

Extension of the given filename Hw4\_3.sh is: sh

/Users/irinagolovko/Documents/Unix/ShellScript/HW/lab/dir1 is a subdirectory

/Users/irinagolovko/Documents/Unix/ShellScript/HW/lab/dir2 is a subdirectory

Filename without Path: dirs.list

Base\_Name of the given filename dirs.list is: dirs

Extension of the given filename dirs.list is: list

Filename without Path: dirs.txt

Base\_Name of the given filename dirs.txt is: dirs

Extension of the given filename dirs.txt is: txt

Filename without Path: files.list

Base\_Name of the given filename files.list is: files

Extension of the given filename files.list is: list

Filename without Path: files.txt

Base\_Name of the given filename files.txt is: files

Extension of the given filename files.txt is: txt

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Congratulations!!!

You are cleaning things up

irinas-MacBook-Pro:IrinaGolovko\_HW7\_debugging irinagolovko$

**OUTPUTS with debugging:**

irinas-MacBook-Pro:IrinaGolovko\_HW7\_debugging irinagolovko$ ./running\_debugg.sh

w

+ w

17:15 up 12 days, 17:37, 2 users, load averages: 1.67 1.48 1.48

USER TTY FROM LOGIN@ IDLE WHAT

irinagolovko console - 01May17 12days -

irinagolovko s000 - Sat21 - w

# We will illustrate the trap command before the program exits

# when a user hits Control-C

# The trap command will ignore INT, signal 2, the interrupt key (^C).

# If ^C is pressed, the message "Ctrl-C will not terminate the running process"

# is printed, and the script continues forever.

# The script can be killed with the kill command or Ctrl^Z and etc.

trap '' 2

+ trap '' 2

trap 'echo " Ctrl-C will not terminate the running process."' 2

+ trap 'echo " Ctrl-C will not terminate the running process."' 2

echo "Enter any string after the prompt"

+ echo 'Enter any string after the prompt'

Enter any string after the prompt

for i in 1 2 3

do

echo -n "Go ahead...> "

read

done

+ for i in 1 2 3

+ echo -n 'Go ahead...> '

Go ahead...> + read

dfghr dhfj

+ for i in 1 2 3

+ echo -n 'Go ahead...> '

Go ahead...> + read

dfet

+ for i in 1 2 3

+ echo -n 'Go ahead...> '

Go ahead...> + read

^Cecho " Ctrl-C will not terminate the running process."

++ echo ' Ctrl-C will not terminate the running process.'

Ctrl-C will not terminate the running process.

dfghryt

# Set value to variable that using alias setthat and function setval

setval that

+ setval that

+ local \_\_resultvar=that

+ local myresult=1000

+ eval 'that='\''1000'\'''

that='1000'

++ that=1000

echo "Value of variable that is: $that"

+ echo 'Value of variable that is: 1000'

Value of variable that is: 1000

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

+ echo \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# we have to deactivate debugging mode set -x

set +x

+ set +x

# using alias dirW=echo Working directory is $PWD'

# for finding working directory

dirW

Working directory is /Users/irinagolovko/Documents/Unix/ShellScript/HW/IrinaGolovko\_HW7\_debugging

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# list of all files in working directory using alias l='dirW | ll'

echo "Files in working directory"

Files in working directory

l

total 24

-rwxr-xr-x@ 1 irinagolovko staff 735 May 14 17:04 alias\_function\_library.sh

-rwxr-xr-x@ 1 irinagolovko staff 2189 May 14 17:13 running.sh

-rwxr-xr-x@ 1 irinagolovko staff 2420 May 14 17:15 running\_debugg.sh

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# files in given directory $dir with alias ll='ls -l $dir'

dir="/Users/irinagolovko/Documents/Unix/ShellScript/HW/lab"

echo "files in given directory $dir"

files in given directory /Users/irinagolovko/Documents/Unix/ShellScript/HW/lab

ll

total 56

-rwxr-xr-x@ 1 irinagolovko staff 1792 Apr 27 03:08 Hw4\_1.sh

-rwxr-xr-x@ 1 irinagolovko staff 916 Apr 27 09:47 Hw4\_2.sh

-rwxr-xr-x@ 1 irinagolovko staff 1023 Apr 27 09:49 Hw4\_3.sh

drwxr-xr-x 5 irinagolovko staff 170 Apr 27 08:58 dir1

drwxr-xr-x 4 irinagolovko staff 136 Apr 27 09:14 dir2

-rw-r--r-- 1 irinagolovko staff 510 Apr 27 09:49 dirs.list

-rw-r--r-- 1 irinagolovko staff 35 Apr 27 09:49 dirs.txt

-rw-r--r-- 1 irinagolovko staff 1848 Apr 27 09:49 files.list

-rw-r--r-- 1 irinagolovko staff 8 Apr 27 09:22 files.txt

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# using alias ll='ls -l $dir' and function output\_extension

# and output\_baseName for finding filename and extensions

# of files in the given directory.

echo "Full File names, base name and name without extension"

Full File names, base name and name without extension

for file in $(ll)

do

if [ -d ${dir}/${file} ]; then

echo "${dir}/${file} is a subdirectory"

elif [ -f ${dir}/${file} ]; then

output\_baseName $file

output\_extension $file

fi

done

ll

basename "$fullfilename"

Filename without Path: Hw4\_1.sh

Base\_Name of the given filename Hw4\_1.sh is: Hw4\_1

echo $filename | cut -f 2 -d '.'

Extension of the given filename Hw4\_1.sh is: sh

basename "$fullfilename"

Filename without Path: Hw4\_2.sh

Base\_Name of the given filename Hw4\_2.sh is: Hw4\_2

echo $filename | cut -f 2 -d '.'

Extension of the given filename Hw4\_2.sh is: sh

basename "$fullfilename"

Filename without Path: Hw4\_3.sh

Base\_Name of the given filename Hw4\_3.sh is: Hw4\_3

echo $filename | cut -f 2 -d '.'

Extension of the given filename Hw4\_3.sh is: sh

/Users/irinagolovko/Documents/Unix/ShellScript/HW/lab/dir1 is a subdirectory

/Users/irinagolovko/Documents/Unix/ShellScript/HW/lab/dir2 is a subdirectory

basename "$fullfilename"

Filename without Path: dirs.list

Base\_Name of the given filename dirs.list is: dirs

echo $filename | cut -f 2 -d '.'

Extension of the given filename dirs.list is: list

basename "$fullfilename"

Filename without Path: dirs.txt

Base\_Name of the given filename dirs.txt is: dirs

echo $filename | cut -f 2 -d '.'

Extension of the given filename dirs.txt is: txt

basename "$fullfilename"

Filename without Path: files.list

Base\_Name of the given filename files.list is: files

echo $filename | cut -f 2 -d '.'

Extension of the given filename files.list is: list

basename "$fullfilename"

Filename without Path: files.txt

Base\_Name of the given filename files.txt is: files

echo $filename | cut -f 2 -d '.'

Extension of the given filename files.txt is: txt

echo "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# using trap and clean\_up function to be sure that all unnecessary

# temporary stuff is gone

trap clean\_up EXIT

# we have to deactivate debugging mode set -V

set +v

Congratulations!!!

You are cleaning things up

irinas-MacBook-Pro:IrinaGolovko\_HW7\_debugging irinagolovko$