

LAB-3

1 .

#!/bin/bash

read -a numbers

if [\${numbers[0]} -gt \${numbers[1]}] && [\${numbers[0]} -gt \${numbers[2]}]

then

echo \${numbers[0]}

elif [\${numbers[1]} -gt \${numbers[0]}] && [\${numbers[1]} -gt \${numbers[2]}]

then

echo \${numbers[1]}

elif [\${numbers[2]} -gt \${numbers[0]}] && [\${numbers[2]} -gt \${numbers[1]}]

then

echo \${numbers[2]}

else

echo "All Three numbers are equal."

Fi

```
(kali㉿kali)-[~]
$ bash file.sh
34 5 64
64

(kali㉿kali)-[~]
$
```

2.

#!/bin/bash

read number

tmp=0

rev=0

while [\$number -gt 0]

do

tmp=\$((\$number % 10))

rev=\$((\$rev * 10 + \$tmp))

number=\$((\$number / 10))

done

echo \$rev

```
(kali㉿kali)-[~]
$ nano file.sh

(kali㉿kali)-[~]
$ bash file.sh
3456754
4576543

(kali㉿kali)-[~]
$
```

3.

#!/bin/bash

a=1

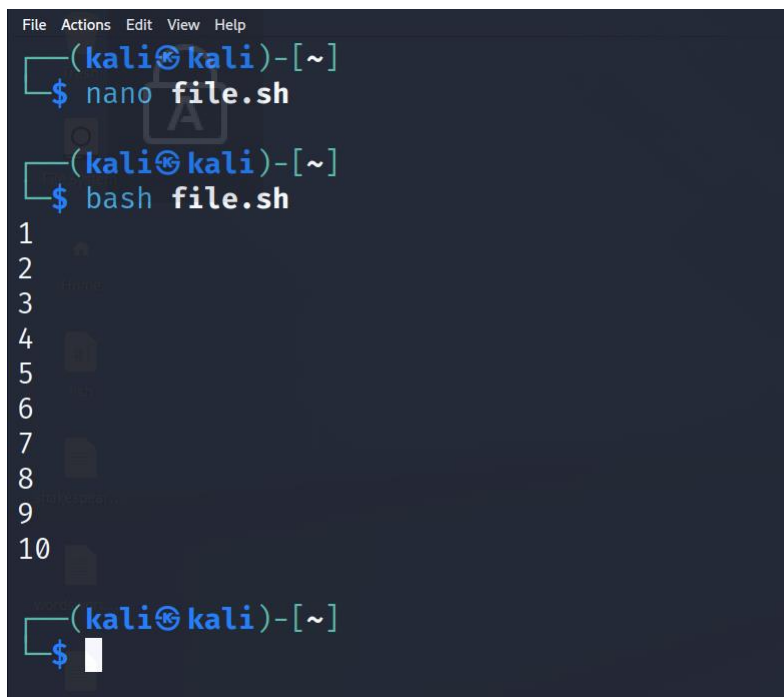
while [\$a -le 10]

do

echo \$a

a=\$((\$a + 1))

done

A screenshot of a terminal window with a dark background. The terminal shows a user at a kali machine in the home directory (~). The user runs 'nano file.sh' to create a script. Then, they run 'bash file.sh'. The script outputs the numbers 1 through 10, one per line. The terminal prompt returns to the user after the script finishes.

```
File Actions Edit View Help
(kali㉿kali)-[~]
$ nano file.sh
(kali㉿kali)-[~]
$ bash file.sh
1
2
3
4
5
6
7
8
9
10
(kali㉿kali)-[~]
$
```

4.

#!/bin/bash

for i in *

do

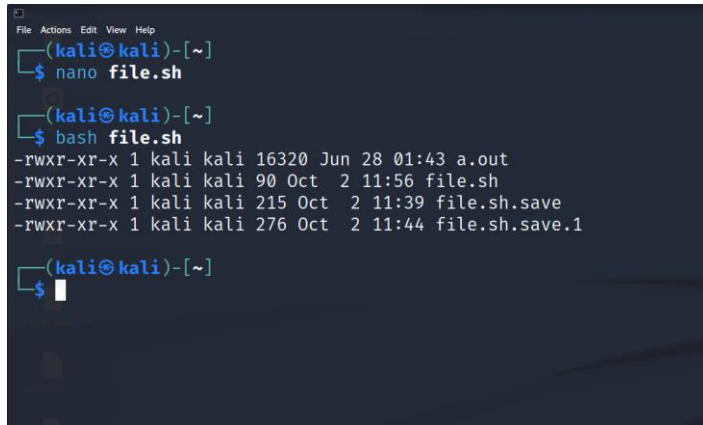
if [-f \$i -a -r \$i -a -w \$i -a -x \$i]

then

ls -l \$i

fi

done



```
File Actions Edit View Help
(kali@kali)-[~]
$ nano file.sh
(kali@kali)-[~]
$ bash file.sh
-rwxr-xr-x 1 kali kali 16320 Jun 28 01:43 a.out
-rwxr-xr-x 1 kali kali 90 Oct 2 11:56 file.sh
-rwxr-xr-x 1 kali kali 215 Oct 2 11:39 file.sh.save
-rwxr-xr-x 1 kali kali 276 Oct 2 11:44 file.sh.save.1
(kali@kali)-[~]
$
```

5.

#!/bin/bash

echo Enter lower bound:

read min

echo Enter higher bound:

read max

for a in \$(seq \$min \$max)

do

for i in \$(seq 2 \$(expr \$a - 1))

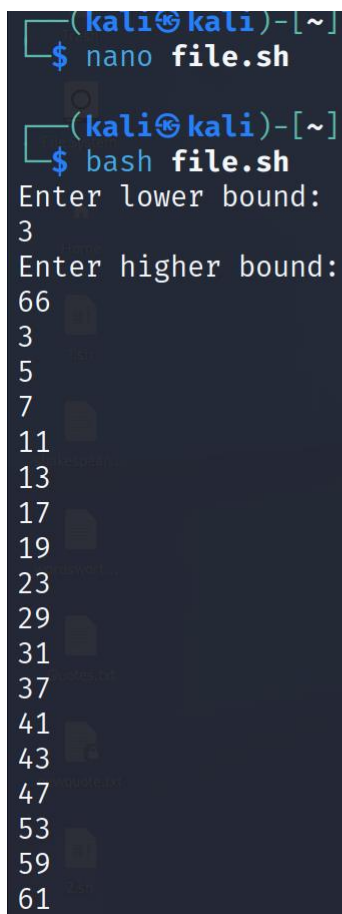
do

k=0

t=\$((\$a % \$i))

if [\$t -eq 0]

```
    then
        k=1
        break
    fi
done
if [ $k -eq 0 ]
then
    echo $a
fi
done
```



```
(kali㉿kali)-[~]
$ nano file.sh
(kali㉿kali)-[~]
$ bash file.sh
Enter lower bound:
3
Enter higher bound:
66
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
```

6.

#!/bin/bash

a=0

b=1

echo Enter count:

read n

echo "=====

echo \$a

echo \$b

tmp=0

for i in \$(seq 1 \$(expr \$n - 2))

do

tmp=\$a

a=\$b

b=`expr \$a + \$tmp`

echo \$b

done

```
(kali㉿kali)-[~]  
$ nano file.sh  
  
(kali㉿kali)-[~]  
$ bash file.sh  
Enter count:  
8  
=====  
0  
1  
1  
2  
3  
5  
8  
13  
  
(kali㉿kali)-[~]  
$
```

7.

#!/bin/bash

read path

if [-d \$path]

then

cd \$path

ls -alps

else

echo "No directory found"

fi

```

(kali㉿kali)-[~]
$ nano file.sh

(kali㉿kali)-[~]
$ bash file.sh
Desktop
total 40
4 drwxr-xr-x  3 kali kali 4096 Sep 22 15:12 ./
4 drwxr-xr-x 21 kali kali 4096 Oct  2 12:06 ../
4 -rw-r--r--  1 kali kali 1328 Sep 22 01:21 1.sh
4 -rw-r--r--  1 kali kali 1257 Sep 22 14:47 2.sh
4 -rw-r--r--  1 kali kali 1893 Sep 22 15:11 3.sh
4 drwxr-xr-x  5 kali kali 4096 Sep 22 14:48 cys44/
4 -r--r--r--  1 kali kali  524 Sep 22 01:21 newquote.txt
4 -rw-r--r--  1 kali kali  524 Sep 22 01:21 Quotes.txt
4 -rw-r--r--  1 kali kali  200 Sep 22 01:21 shakespeare.txt
0 -rw-r--r--  1 kali kali    0 Sep 22 15:12 text.txt
4 -rw-r--r--  1 kali kali  189 Sep 22 01:21 wordsworth.txt

(kali㉿kali)-[~]
$

```

8.

#!/bin/bash

echo "Enter n: "

read n

q=1

t=0

while [\$q -le \$n]

do

t=`expr \$t + \$q`

q=`expr \$q + 1`

done

echo Sum of \$n natural numbers:

echo \$t


```
File Actions Edit View Help
(kali㉿kali)-[~]
$ nano file.sh

(kali㉿kali)-[~]
$ bash file.sh
Enter n:
15
Sum of 15 natural numbers:
120

(kali㉿kali)-[~]
$
```

Done by:

Name: G.kushal bhavani reddy.

Roll no:cb.en.u4cys21021.