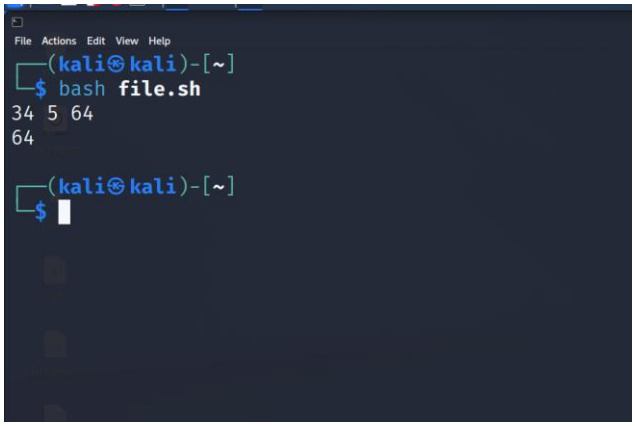
LAB-3

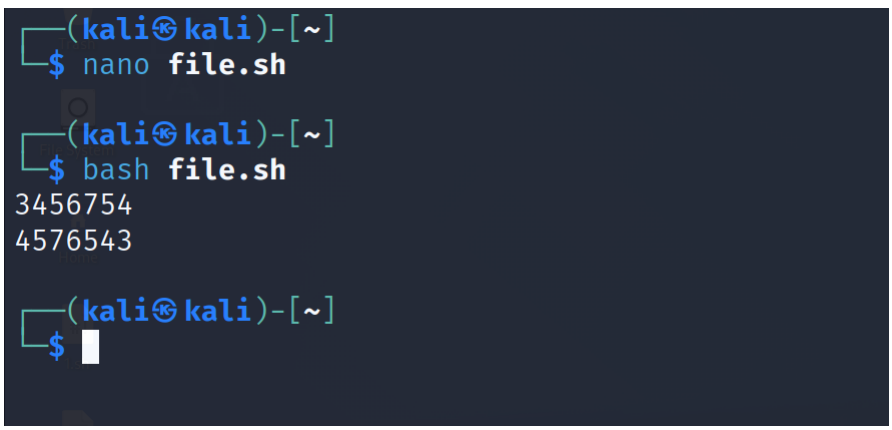
1 .

```
#! /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
```



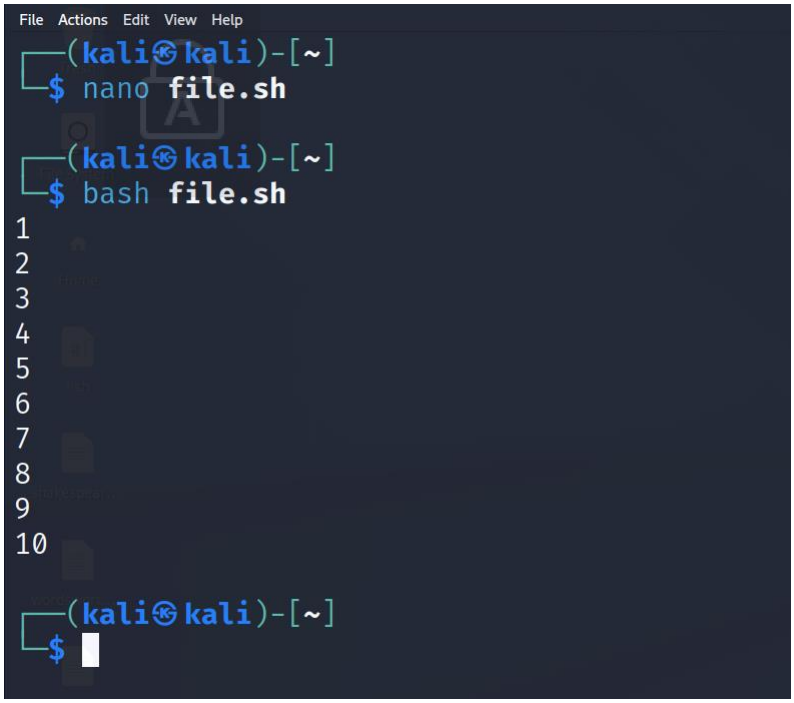
2.

```
#! /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
```



3.

```
#! /bin/bash
a=1
while [ $a -le 10 ]
do
echo $a
a=$(( $a + 1 ))
done
```



4.

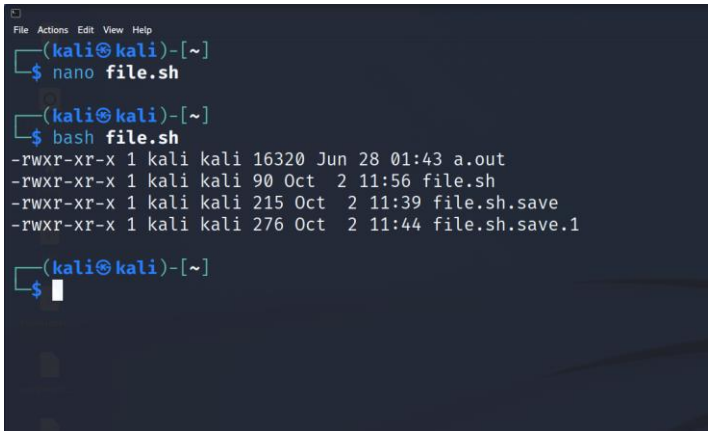
```
#! /bin/bash

for i in *
do
if [ -f $i -a -r $i -a -w $i -a -x $i ]
```

then

ls -l $i

fi

done



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
```

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

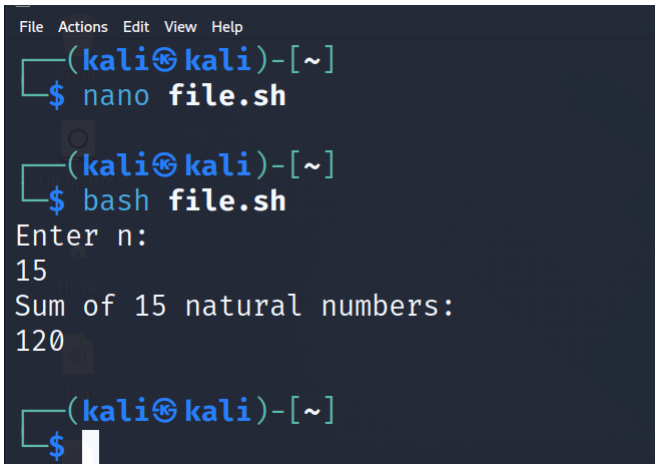
t=`expr $t + $q`

q=`expr $q + 1`

done

echo Sum of $n natural numbers:

echo $t



Done by:

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