

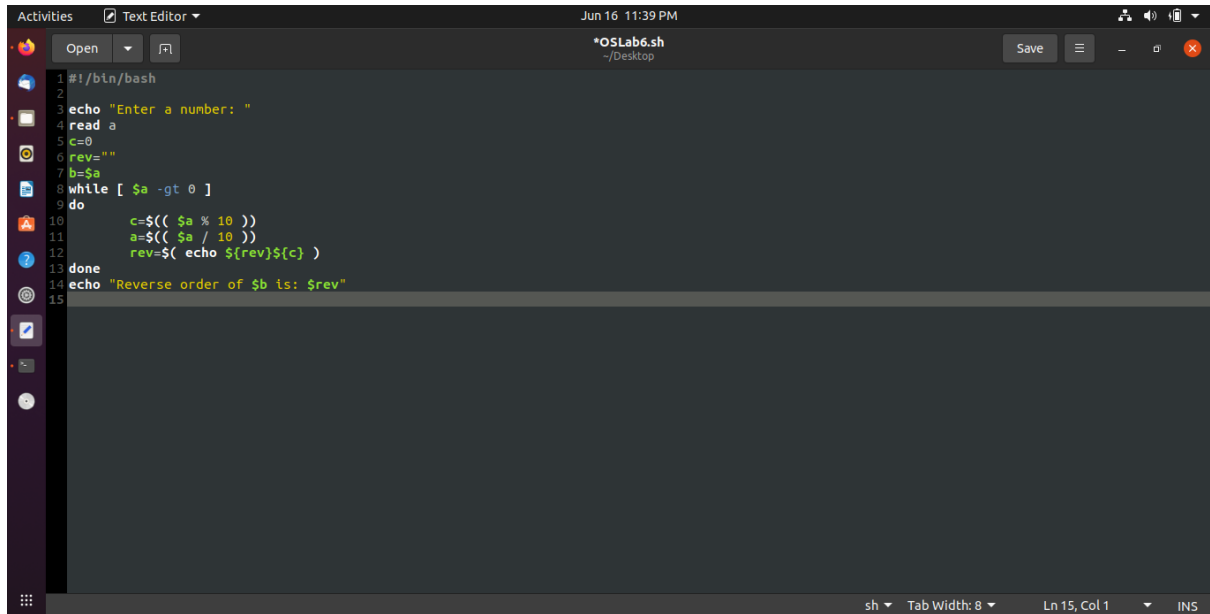
OPERATING SYSTEM LAB TASK – 06

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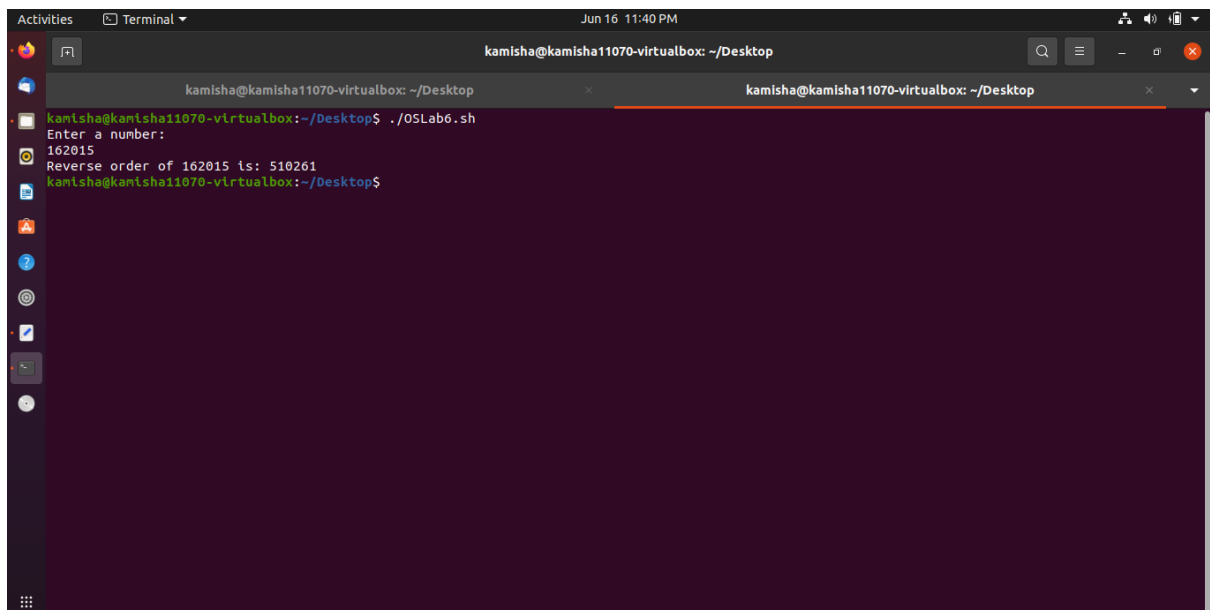
QUESTION – 1

CODE:



```
1#!/bin/bash
2
3echo "Enter a number: "
4read a
5c=0
6rev=""
7b=$a
8while [ $a -gt 0 ]
9do
10    c=$(( $a % 10 ))
11    a=$(( $a / 10 ))
12    rev=$(( echo ${rev}${c} ))
13done
14echo "Reverse order of $b is: $rev"
15
```

OUTPUT:



```
kamisha@kamisha11070-virtualbox: ~/Desktop
kamisha@kamisha11070-virtualbox: ~/Desktop$ ./OSLab6.sh
Enter a number:
162015
Reverse order of 162015 is: 510261
kamisha@kamisha11070-virtualbox: ~/Desktop$
```

QUESTION – 2

CODE:

```
Activities Text Editor Jun 16 9:04 PM
OSLab6.sh ~/Desktop Save
1#!/bin/bash
2
3while true
4do
5echo ""
6echo "-----CALCULATOR-----"
7echo "1. Addition"
8echo "2. Subtraction"
9echo "3. Multiplication"
10echo "4. Division"
11echo "5. Exit"
12echo "What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:"
13read op
14if [ $op == "1" ]
15then
16echo ""
17echo "Enter the first number: "
18read f
19echo "Enter the second number: "
20read s
21echo "Addition of $f and $s is:" $((f+s))
22elif [ $op == "2" ]
23then
24echo ""
25echo "Enter the first number: "
26read f
27echo "Enter the second number: "
28read s
29echo "Subtraction of $f and $s is:" $((f-s))
30elif [ $op == "3" ]
31then
32echo ""
33echo "Enter the first number: "
```

```
Activities Text Editor Jun 16 9:07 PM
OSLab6.sh ~/Desktop Save
21echo "Addition of $f and $s is:" $((f+s))
22elif [ $op == "2" ]
23then
24echo ""
25echo "Enter the first number: "
26read f
27echo "Enter the second number: "
28read s
29echo "Subtraction of $f and $s is:" $((f-s))
30elif [ $op == "3" ]
31then
32echo ""
33echo "Enter the first number: "
34read f
35echo "Enter the second number: "
36read s
37echo "Multiplication of $f and $s is:" $((f*s))
38elif [ $op == "4" ]
39then
40echo ""
41echo "Enter the first number: "
42read f
43echo "Enter the second number: "
44read s
45echo "Division of $f and $s is:" $((f/s))
46elif [ $op == "5" ]
47then
48echo ""
49echo "Program exited successfully!"
50exit
51fi
52done
53fi
```

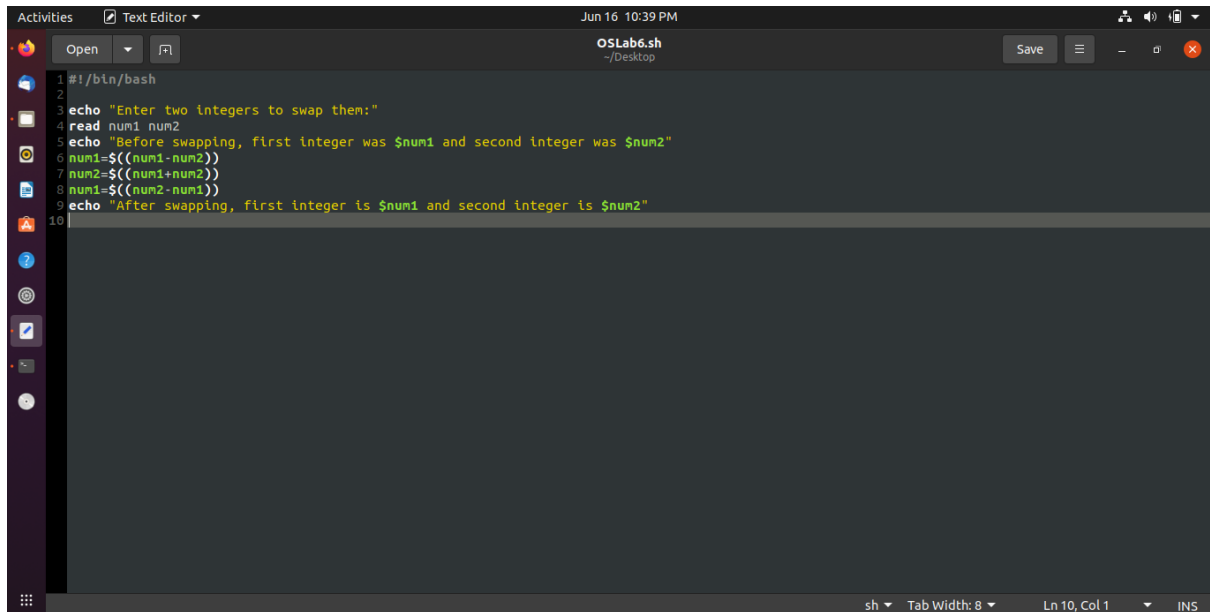
OUTPUT:

```
Activities Terminal Jun 16 9:12 PM
kamisha@kamisha11070-virtualbox: ~/Desktop
kamisha@kamisha11070-virtualbox:~/Desktop$ ./OSLab6.sh
-----CALCULATOR-----
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:
1
Enter the first number:
4
Enter the second number:
8
Addition of 4 and 8 is: 12
-----CALCULATOR-----
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:
3
Enter the first number:
12
Enter the second number:
3
Multiplication of 12 and 3 is: 36
-----CALCULATOR-----
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:
```

```
Activities Terminal Jun 16 9:12 PM
kamisha@kamisha11070-virtualbox: ~/Desktop
3. Multiplication
4. Division
5. Exit
What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:
2
Enter the first number:
3
Enter the second number:
-6
Subtraction of 3 and -6 is: 9
-----CALCULATOR-----
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:
4
Enter the first number:
10
Enter the second number:
5
Division of 10 and 5 is: 2
-----CALCULATOR-----
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
What operator do you want to use? Or enter 5 to exit the program. Enter the respective number below:
5
Program exited successfully!
kamisha@kamisha11070-virtualbox:~/Desktop$
```

QUESTION – 3

CODE:

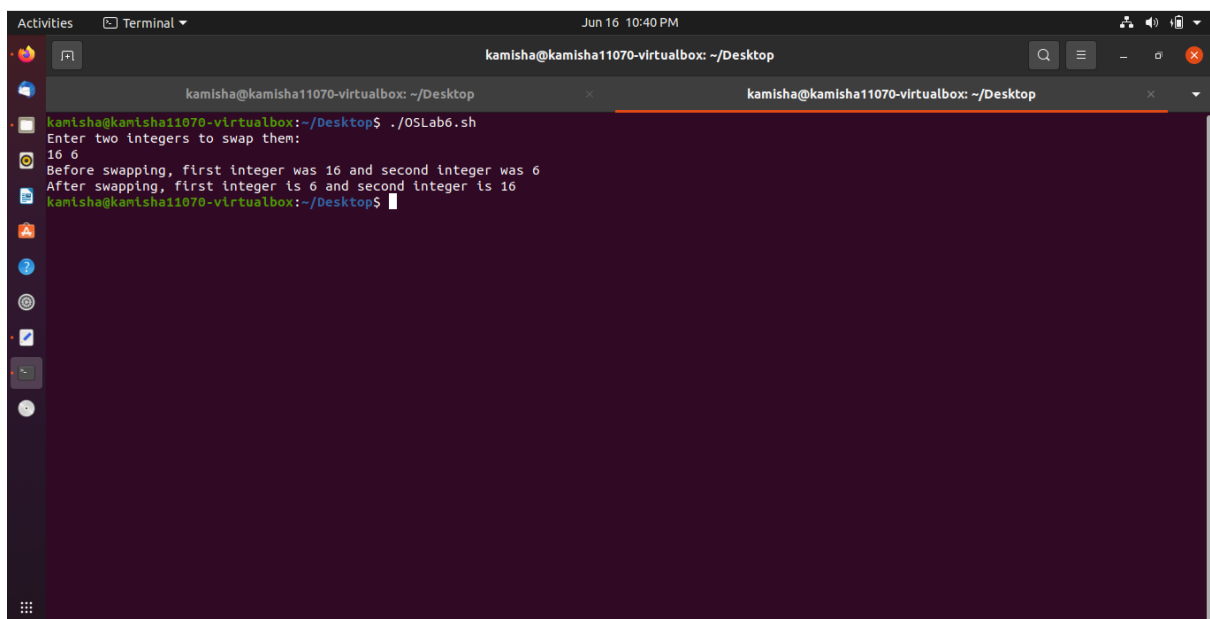


A screenshot of a text editor window titled "OSLab6.sh" located at "~/Desktop". The editor shows a shell script with the following content:

```
1#!/bin/bash
2
3echo "Enter two integers to swap them:"
4read num1 num2
5echo "Before swapping, first integer was $num1 and second integer was $num2"
6num1=$((num1+num2))
7num2=$((num1-num1))
8num1=$((num2-num1))
9echo "After swapping, first integer is $num1 and second integer is $num2"
10
```

The status bar at the bottom indicates "sh", "Tab Width: 8", "Ln 10, Col 1", and "INS".

OUTPUT:



A screenshot of a terminal window titled "kamisha@kamisha11070-virtualbox: ~/Desktop". The terminal shows the execution of the script `./OSLab6.sh`. The output is as follows:

```
kamisha@kamisha11070-virtualbox:~/Desktop$ ./OSLab6.sh
Enter two integers to swap them:
16 6
Before swapping, first integer was 16 and second integer was 6
After swapping, first integer is 6 and second integer is 16
kamisha@kamisha11070-virtualbox:~/Desktop$
```