

HAMMAD MURTAZA

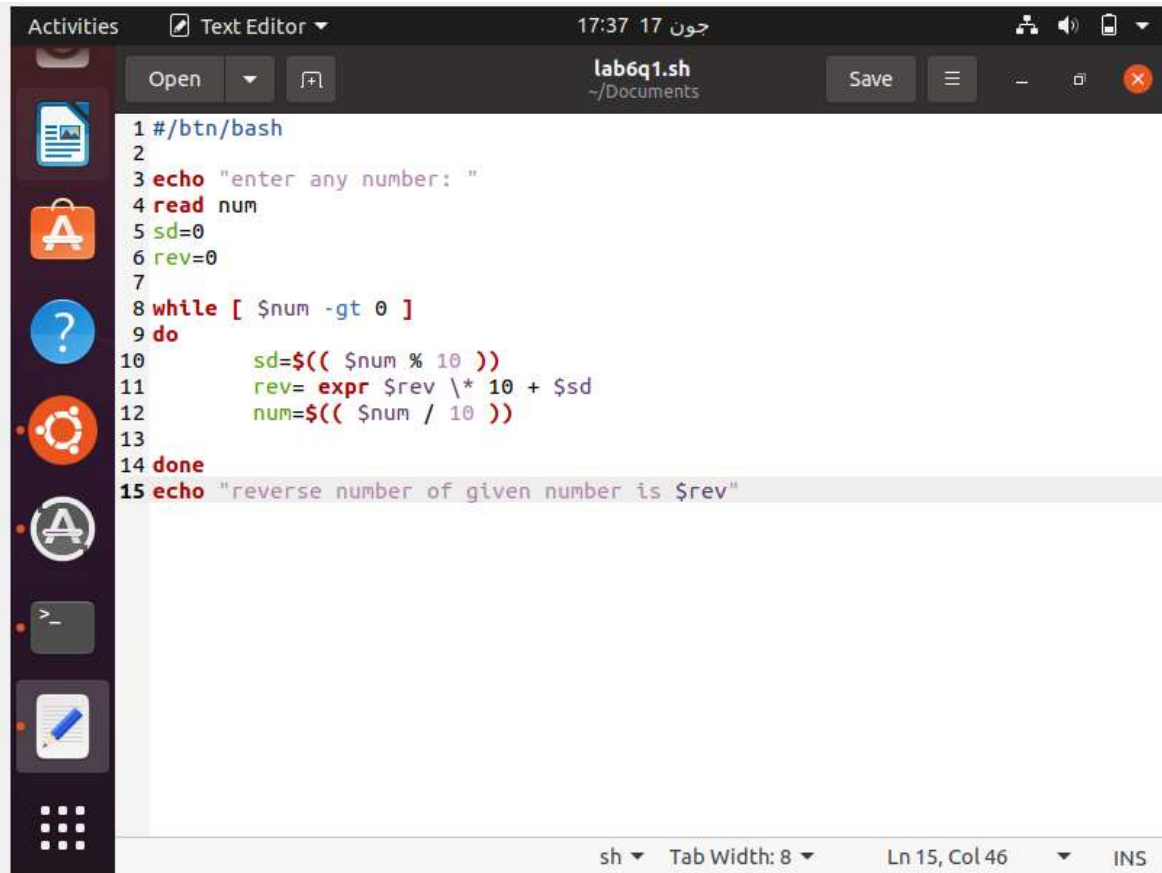
SID: 11146

CID: 107241

OS LAB 6

Q1:

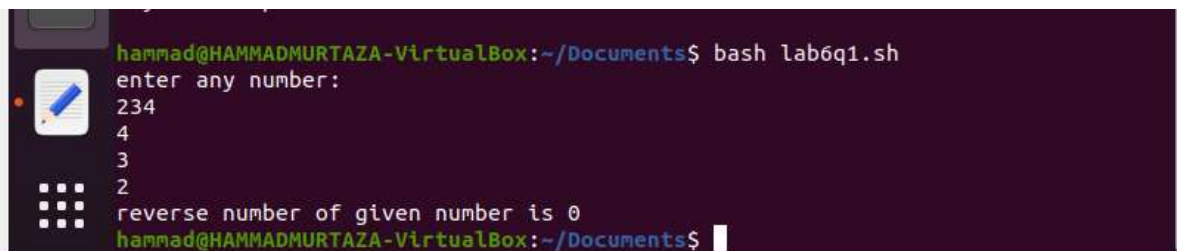
CODE:



The screenshot shows a Linux desktop environment with a dark theme. A text editor window titled 'lab6q1.sh' is open, displaying a shell script. The script is designed to reverse a number. The desktop sidebar on the left contains several application icons, including a file manager, a terminal, and a web browser. The text editor's status bar at the bottom indicates the current line and column as 'Ln 15, Col 46'.

```
1 #/btn/bash
2
3 echo "enter any number: "
4 read num
5 sd=0
6 rev=0
7
8 while [ $num -gt 0 ]
9 do
10     sd=$(( $num % 10 ))
11     rev= expr $rev \* 10 + $sd
12     num=$(( $num / 10 ))
13
14 done
15 echo "reverse number of given number is $rev"
```

OUTPUT:



The screenshot shows a terminal window with a dark background. The prompt is 'hammad@HAMMADMURTAZA-VirtualBox:~/Documents\$'. The user has entered 'bash lab6q1.sh'. The script's output is displayed: 'enter any number:', followed by the input '234', and then the reversed number '432'. The final output line is 'reverse number of given number is 0', which appears to be a discrepancy with the input. The terminal prompt is now 'hammad@HAMMADMURTAZA-VirtualBox:~/Documents\$'.

```
hammad@HAMMADMURTAZA-VirtualBox:~/Documents$ bash lab6q1.sh
enter any number:
234
4
3
2
reverse number of given number is 0
hammad@HAMMADMURTAZA-VirtualBox:~/Documents$
```

Q2:

CODE:

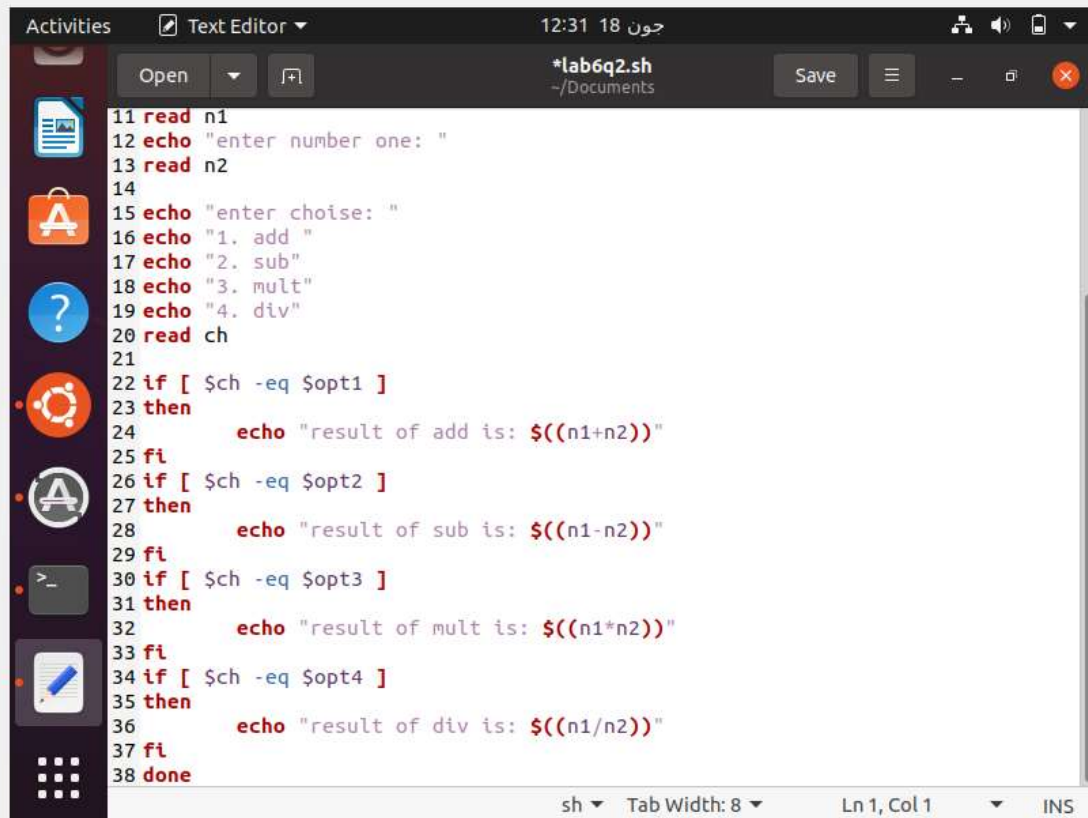
Activities Text Editor 12:30 18 جون

Open Save

*lab6q2.sh
~/Documents

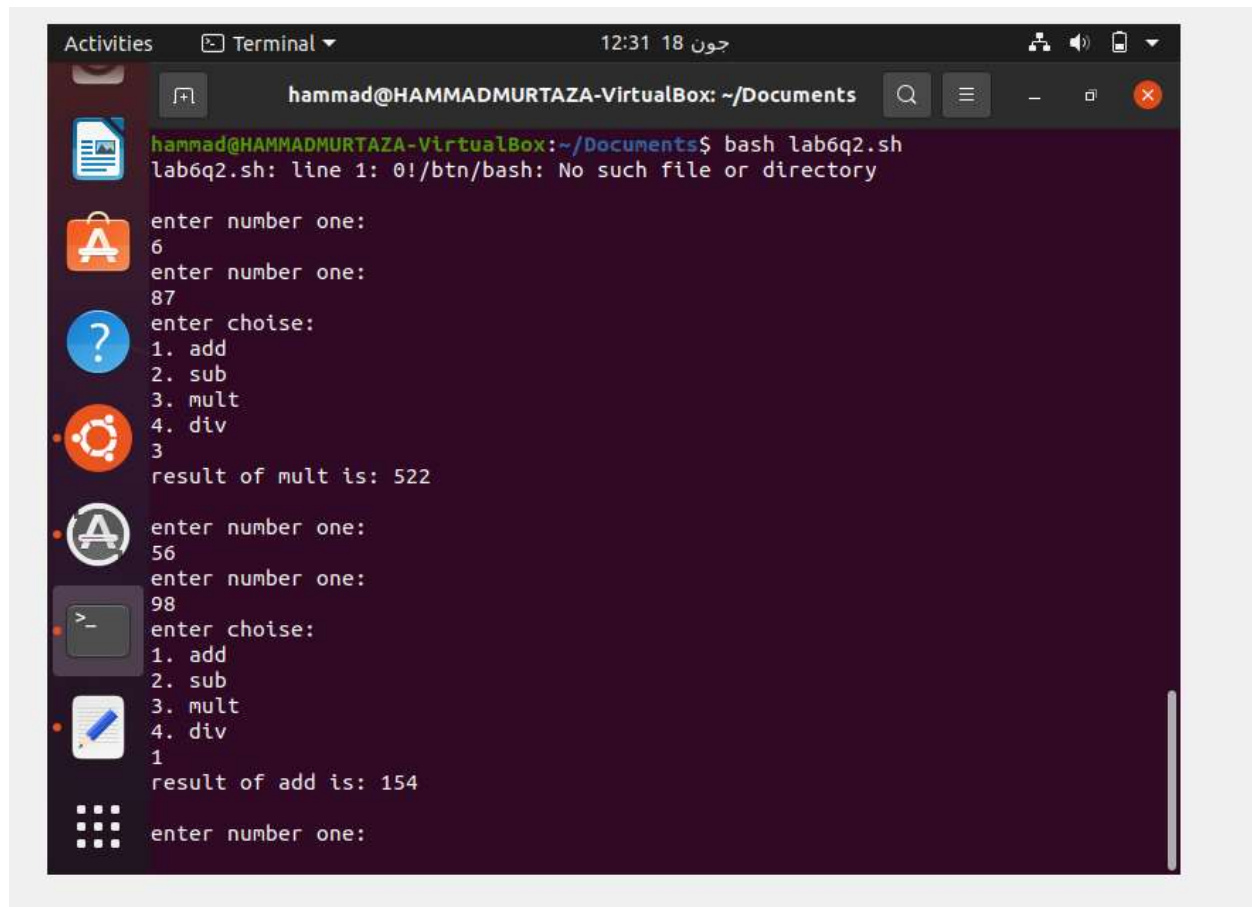
```
1#!/bin/bash
2opt1=1
3opt2=2
4opt3=3
5opt4=4
6
7for i in 1 2 3 4
8do
9echo ""
10echo "enter number one: "
11read n1
12echo "enter number one: "
13read n2
14
15echo "enter choise: "
16echo "1. add "
17echo "2. sub"
18echo "3. mult"
19echo "4. div"
20read ch
21
22if [ $ch -eq $opt1 ]
23then
24    echo "result of add is: $((n1+n2))"
25fi
26if [ $ch -eq $opt2 ]
27then
28    echo "result of sub is: $((n1-n2))"
```

sh Tab Width: 8 Ln 1, Col 1 INS



```
11 read n1
12 echo "enter number one: "
13 read n2
14
15 echo "enter choise: "
16 echo "1. add "
17 echo "2. sub"
18 echo "3. mult"
19 echo "4. div"
20 read ch
21
22 if [ $ch -eq $opt1 ]
23 then
24     echo "result of add is: $((n1+n2))"
25 fi
26 if [ $ch -eq $opt2 ]
27 then
28     echo "result of sub is: $((n1-n2))"
29 fi
30 if [ $ch -eq $opt3 ]
31 then
32     echo "result of mult is: $((n1*n2))"
33 fi
34 if [ $ch -eq $opt4 ]
35 then
36     echo "result of div is: $((n1/n2))"
37 fi
38 done
```

OUTPUT:



The screenshot shows a terminal window titled "Terminal" with the user "hammad@HAMMADMURTAZA-VirtualBox" in the directory "~/Documents". The terminal output shows the execution of a script "lab6q2.sh". The script prompts the user to enter a number, then a choice from a menu (1. add, 2. sub, 3. mult, 4. div). The user enters "6", "87", and "3", resulting in the output "result of mult is: 522". The script then prompts the user to enter a number, then a choice from the same menu. The user enters "56", "98", and "1", resulting in the output "result of add is: 154". The script then prompts the user to enter a number.

```
hammad@HAMMADMURTAZA-VirtualBox: ~/Documents
hammad@HAMMADMURTAZA-VirtualBox$ bash lab6q2.sh
lab6q2.sh: line 1: 0!/btn/bash: No such file or directory

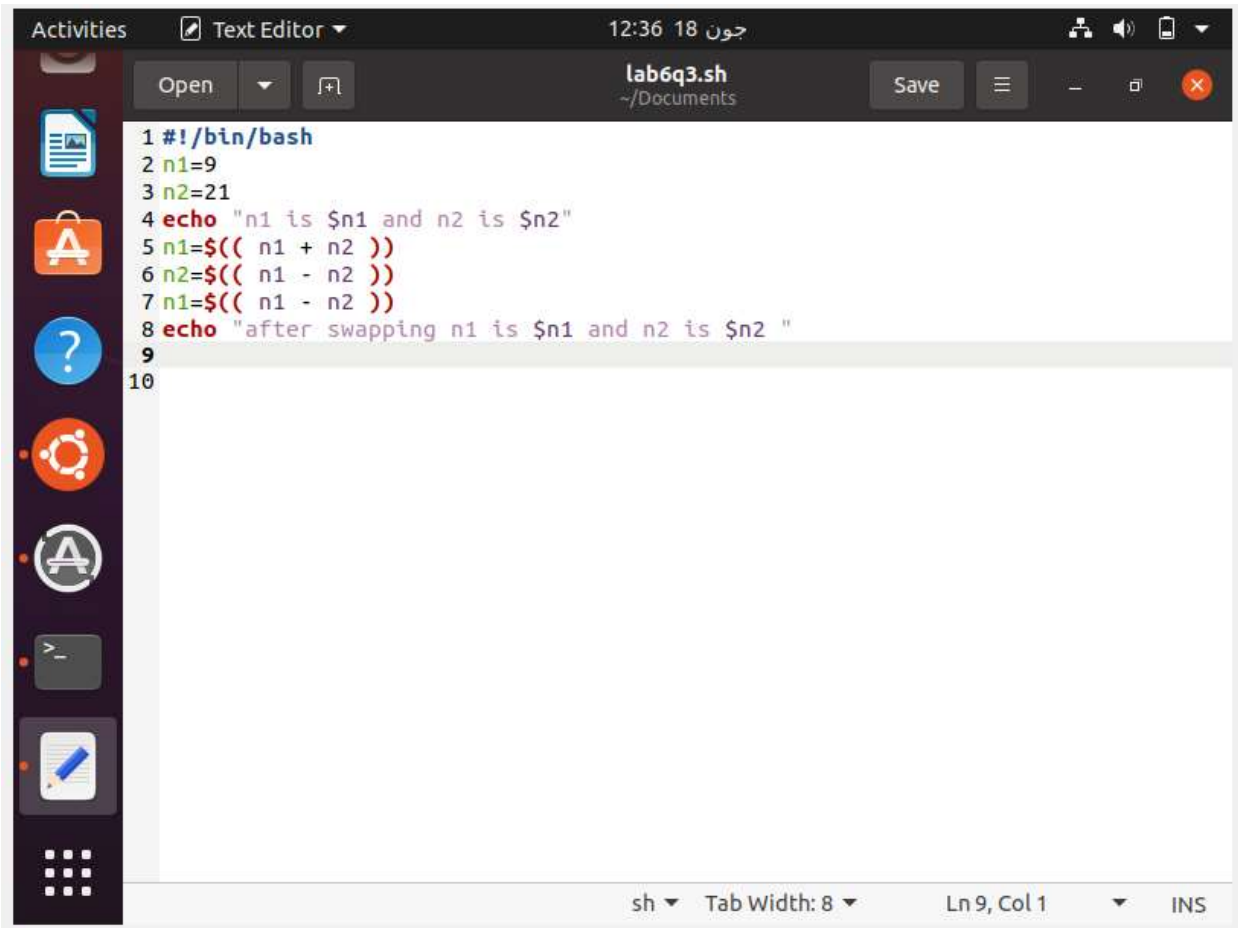
enter number one:
6
enter number one:
87
enter choise:
1. add
2. sub
3. mult
4. div
3
result of mult is: 522

enter number one:
56
enter number one:
98
enter choise:
1. add
2. sub
3. mult
4. div
1
result of add is: 154

enter number one:
```

Q3:

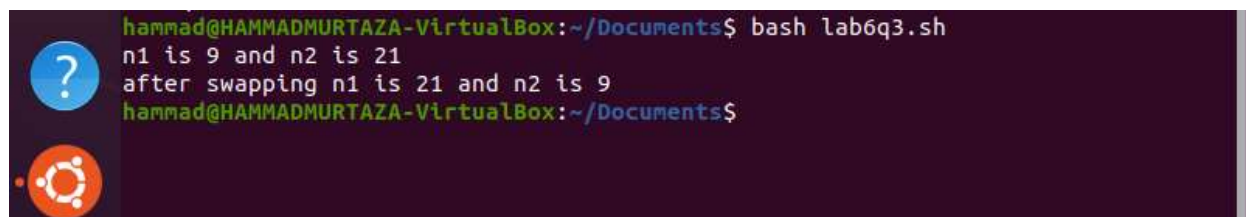
CODE:



The screenshot shows a Linux desktop with a dark theme. A text editor window titled "lab6q3.sh" is open, displaying a shell script. The script initializes two variables, n1 and n2, and then swaps their values using arithmetic operations. The desktop has a sidebar with application icons and a top bar with system status and window controls.

```
1 #!/bin/bash
2 n1=9
3 n2=21
4 echo "n1 is $n1 and n2 is $n2"
5 n1=$(( n1 + n2 ))
6 n2=$(( n1 - n2 ))
7 n1=$(( n1 - n2 ))
8 echo "after swapping n1 is $n1 and n2 is $n2 "
9
10
```

OUTPUT:



The screenshot shows a terminal window with a dark background. It displays the output of the shell script executed in the previous image. The output shows the initial values of n1 and n2, followed by the swapped values after the arithmetic operations.

```
hammad@HAMMADMURTAZA-VirtualBox:~/Documents$ bash lab6q3.sh
n1 is 9 and n2 is 21
after swapping n1 is 21 and n2 is 9
hammad@HAMMADMURTAZA-VirtualBox:~/Documents$
```