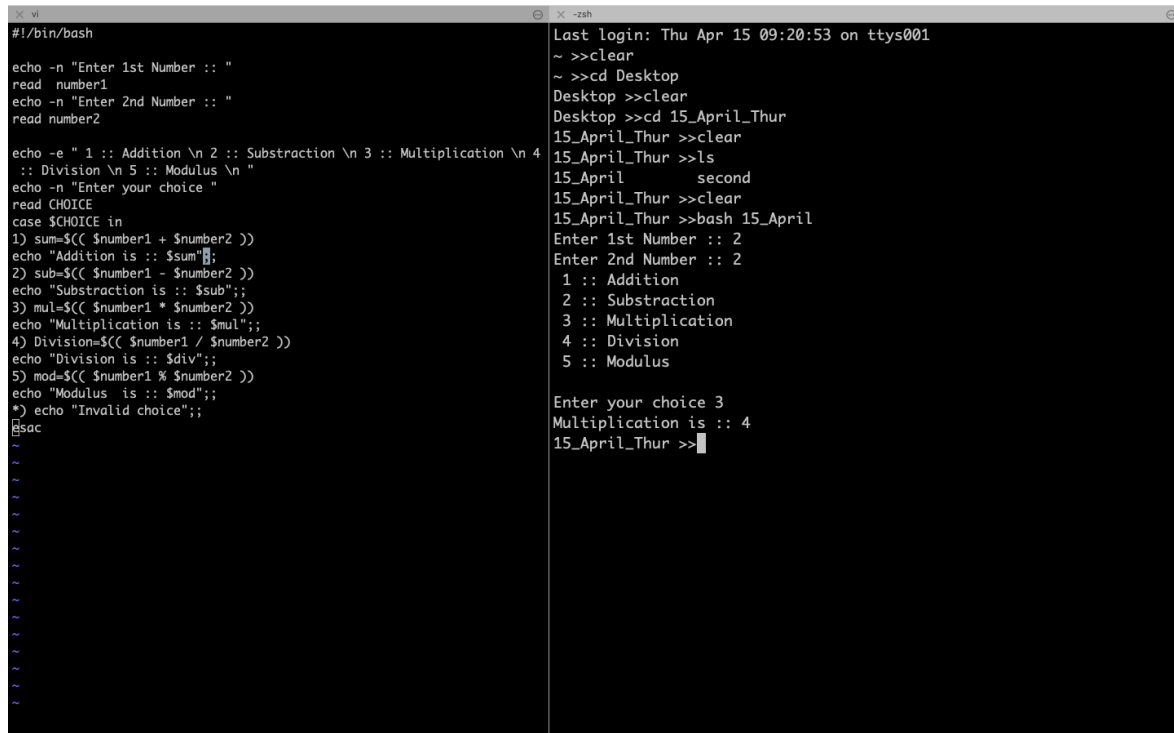


Practical 15 April 2021 ( UNIX )

## 1st Program ::



```
#!/bin/bash

echo -n "Enter 1st Number :: "
read number1
echo -n "Enter 2nd Number :: "
read number2

echo -e " 1 :: Addition \n 2 :: Substraction \n 3 :: Multiplication \n 4 :: Division \n 5 :: Modulus \n "
echo -n "Enter your choice "
read CHOICE
case $CHOICE in
1) sum=$(( $number1 + $number2 ))
echo "Addition is :: $sum";;
2) sub=$(( $number1 - $number2 ))
echo "Substraction is :: $sub";;
3) mul=$(( $number1 * $number2 ))
echo "Multiplication is :: $mul";;
4) Divison=$(( $number1 / $number2 ))
echo "Division is :: $div";;
5) mod=$(( $number1 % $number2 ))
echo "Modulus is :: $mod";;
*) echo "Invalid choice";;
esac
```

```
Last login: Thu Apr 15 09:20:53 on ttys001
~ >>clear
~ >>cd Desktop
Desktop >>clear
Desktop >>cd 15_April_Thur
15_April_Thur >>clear
15_April_Thur >>ls
15_April_Thur second
15_April_Thur >>clear
15_April_Thur >>bash 15_April
Enter 1st Number :: 2
Enter 2nd Number :: 2
 1 :: Addition
 2 :: Substraction
 3 :: Multiplication
 4 :: Division
 5 :: Modulus

Enter your choice 3
Multiplication is :: 4
15_April_Thur >>
```

```
#!/bin/bash
```

```
echo -n "Enter 1st Number :: "
read number1
echo -n "Enter 2nd Number :: "
read number2
```

```
echo -e " 1 :: Addition \n 2 :: Substraction \n 3 :: Multiplication \n 4 :: Division \n 5 :: Modulus \n "
echo -n "Enter your choice "
read CHOICE
case $CHOICE in
1) sum=$(( $number1 + $number2 ))
echo "Addition is :: $sum";;
2) sub=$(( $number1 - $number2 ))
echo "Substraction is :: $sub";;
3) mul=$(( $number1 * $number2 ))
echo "Multiplication is :: $mul";;
4) Divison=$(( $number1 / $number2 ))
echo "Division is :: $div";;
5) mod=$(( $number1 % $number2 ))
```

```

echo "Modulus is :: $mod";;
*) echo "Invalid choice";;
esac

```

## 2nd Program ::

```

#!/bin/bash

echo -n "Enter 1st Number :: "
read num1
echo -n "Enter 2nd Number :: "
read num2

echo -e " 1 :: Addition \n 2 :: Substraction \n 3 :: Multiplication \n 4 :: Division \n 5 :: Modulus \n 6 :: Equality "
echo -n "Enter your choice "
read CHOICE
case $CHOICE in
1) sum=`expr $num1 + $num2`
echo "Addition:: $sum";;
2) sub=`expr $num2 - $num1`
echo "Subtraction:: $sub";;
3) mul=`expr $num1 * $num2`
echo "multiplication:: $mul";;
4) div=`expr $num1 / $num2`
echo "Division:: $div";;
5) mod=`expr $num1 % $num2`
echo "Modulus:: $mod";;
6) if [ $num1 == $num2 ]
then
echo "$num1 is equal to $num2"
else
echo "Not equal"
fi;;
*) echo "Invalid Choice!!";;
esac

```

```

15_April_Thur >>bash second
Enter 1st Number :: 2
Enter 2nd Number :: 3
1 :: Addition
2 :: Substraction
3 :: Multiplication
4 :: Division
5 :: Modulus
6 :: Equality
Enter your choice 6
Not equal
15_April_Thur >>

```

```
#!/bin/bash
```

```

echo -n "Enter 1st Number :: "
read num1
echo -n "Enter 2nd Number :: "
read num2

```

```

echo -e " 1 :: Addition \n 2 :: Substraction \n 3 :: Multiplication \n 4 :: Division \n 5 ::
Modulus \n 6 :: Equality "
echo -n "Enter your choice "
read CHOICE
case $CHOICE in
1) sum=`expr $num1 + $num2`
echo "Addition:: $sum";;
2) sub=`expr $num2 - $num1`
echo "Subtraction:: $sub";;
3) mul=`expr $num1 * $num2`
echo "multiplication:: $mul";;
4) div=`expr $num1 / $num2`
echo "Division:: $div";;
5) mod=`expr $num1 % $num2`

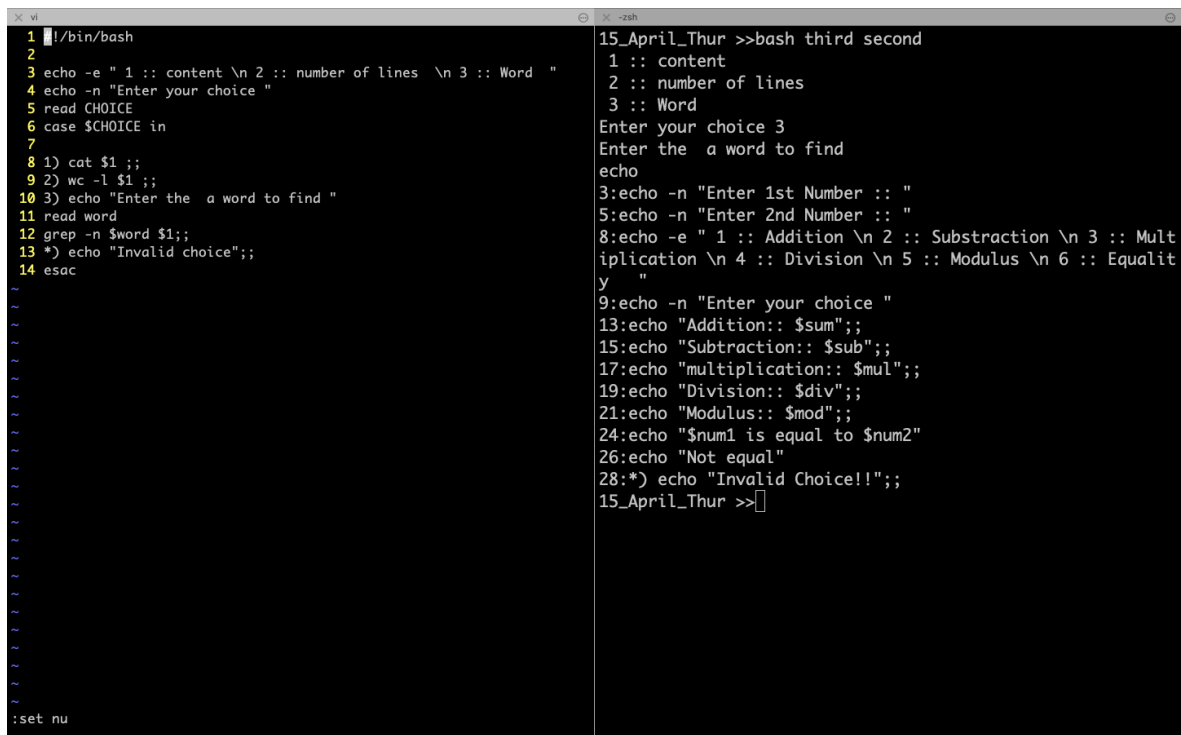
```

```

echo "Modulus:: $mod";;
6) if [ $num1 == $num2 ]
then
echo "$num1 is equal to $num2"
else
echo "Not equal"
fi;;
*) echo "Invalid Choice!!";;
esac

```

### 3rd Program ::



```

#!/bin/bash
1 echo -e " 1 :: content \n 2 :: number of lines \n 3 :: Word "
2 echo -n "Enter your choice "
3 read CHOICE
4 case $CHOICE in
5 1) cat $1 ;;
6 2) wc -l $1 ;;
7 3) echo "Enter the a word to find "
8 read word
9 grep -n $word $1;;
10 *) echo "Invalid choice";;
11 esac
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```

```
#!/bin/bash
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```

echo -e " 1 :: content \n 2 :: number of lines \n 3 :: Find the word with line number "
echo -n "Enter your choice "
read CHOICE
case $CHOICE in

1) cat $1 ;;
2) wc -l $1 ;;
3) echo "Enter the a word to find "

```

```
read word
grep -n $word $1;;
*) echo "Invalid choice";;
esac
```