OS ASSIGNMENT -3

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Different shellscripting programs

1. To make a file

Sudo gedit prog1.sh

2. To give the execute permission

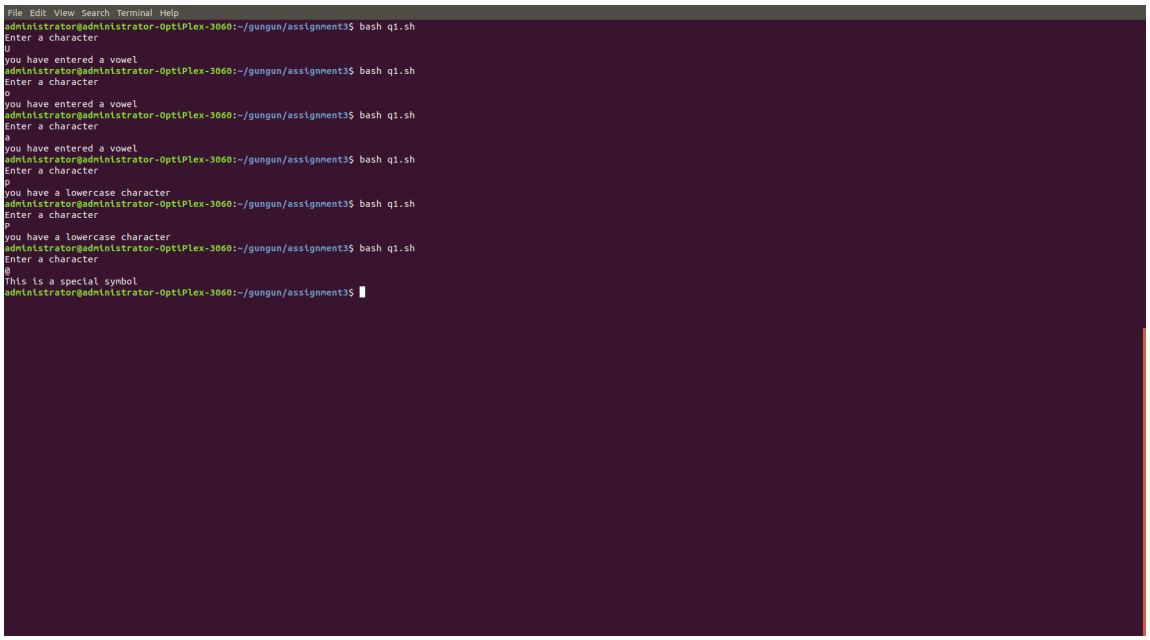
sudo chmod +x q1.sh

3. To run the program

bash q1.file

Que1 . Shell program to check whether a character is a

- Uppercase
- Lowercase
- Digit
- Special Symbol
- Vowel



Que 2 .Shell program to check whether a given file is a directory or not

```
administrator@administrator-OptiPlex-3060: ~/gungun/assignment3
File  Edit  View  Search  Terminal  Help
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$ bash q2.sh q1.sh
The provided argument is the file.
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$ bash q2.sh tempFolder/
The provided argument is the directory.
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$
```

```
#!/bin/sh
#Using -d option we are checking whether the first argument is a directory or not.
#$1 refers to the first argument
if [ -d $1 ]
then
        echo "The provided argument is the directory."
#Using -f option we are checking whether the first argument is a file or not.
elif [ -f $1 ]
then
        echo "The provided argument is the file."
#if the provided argument is not file and directory then it does not exist on the system.
else
        echo "The given argument does not exist on the file system."
fi
```

Que 3 .Shell program to count the number of files and directories in the given folder

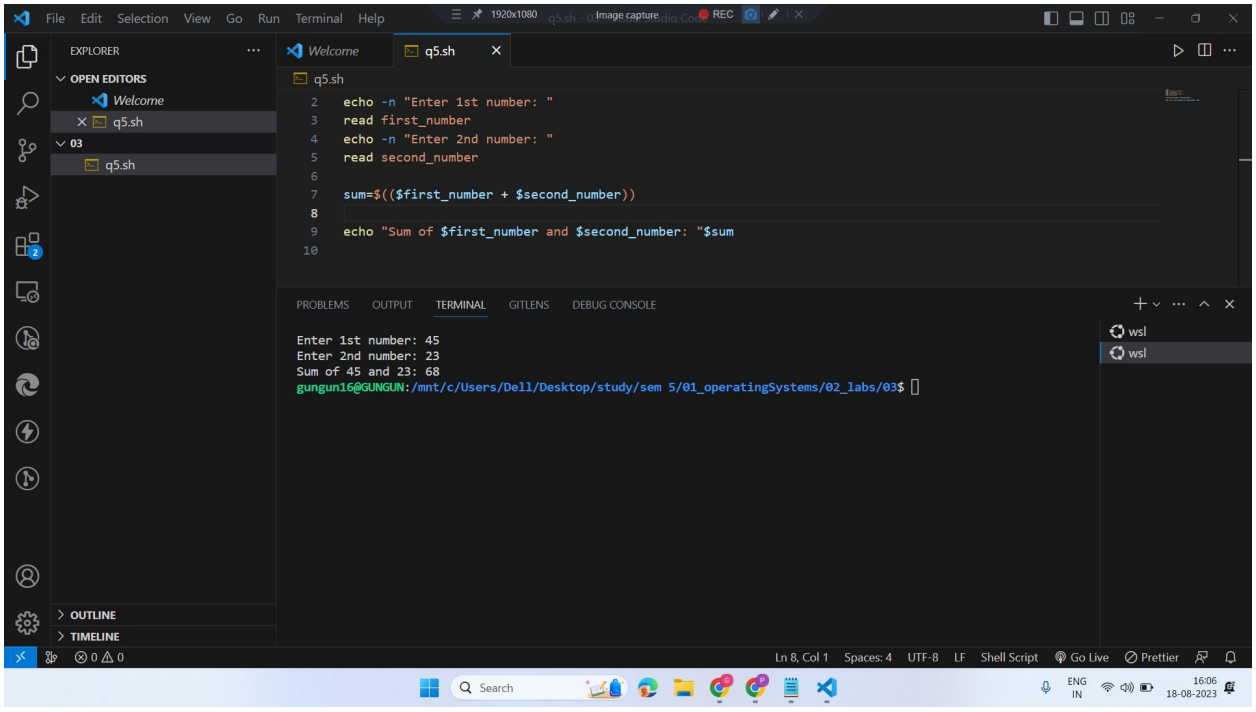
```
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$ bash q3.sh
No. of files is 4
No. of directories is 2
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$
```

```
#!/bin/sh

echo "No. of files is $(find "$@" -type f | wc -l)"
echo "No. of directories is $(find "$@" -type d | wc -l)"
```

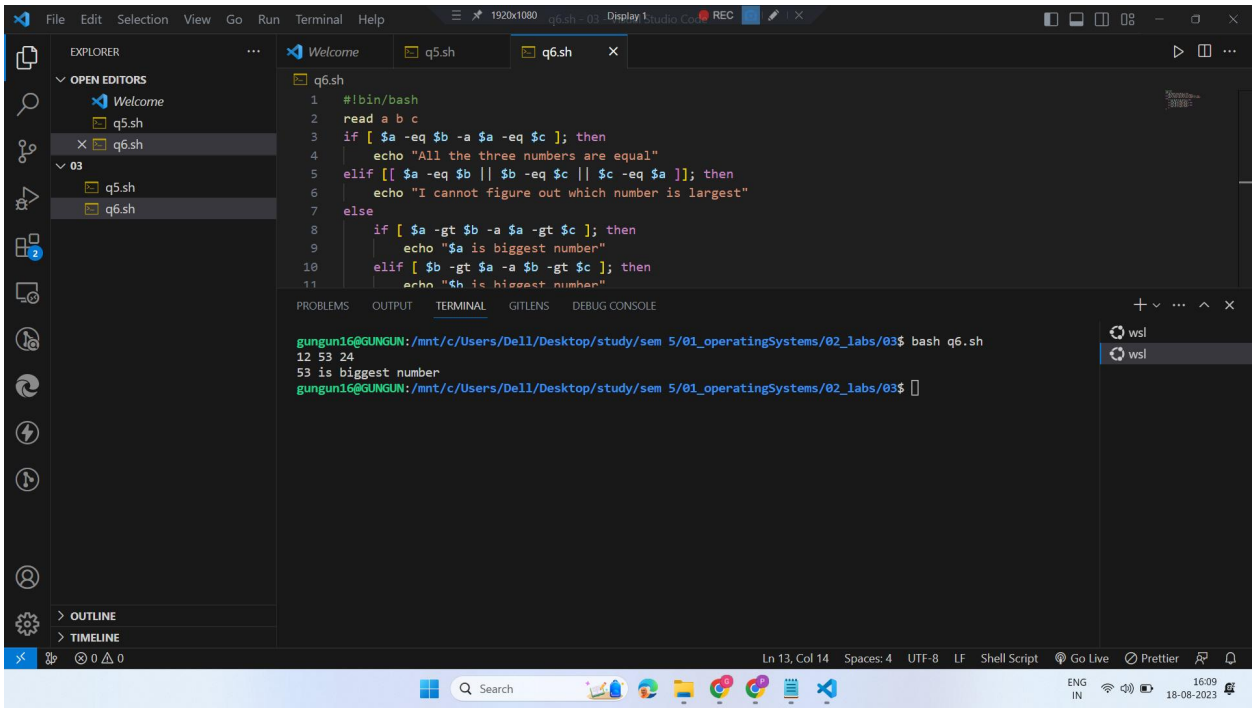
Que 4 . Add two numbers supplied by the user and also by the command line argument .

```
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$ sudo chmod +x q4.sh
administrator@administrator-OptiPlex-3060:~/gungun/assignment3$ bash q4.sh
Sum is: 30
```

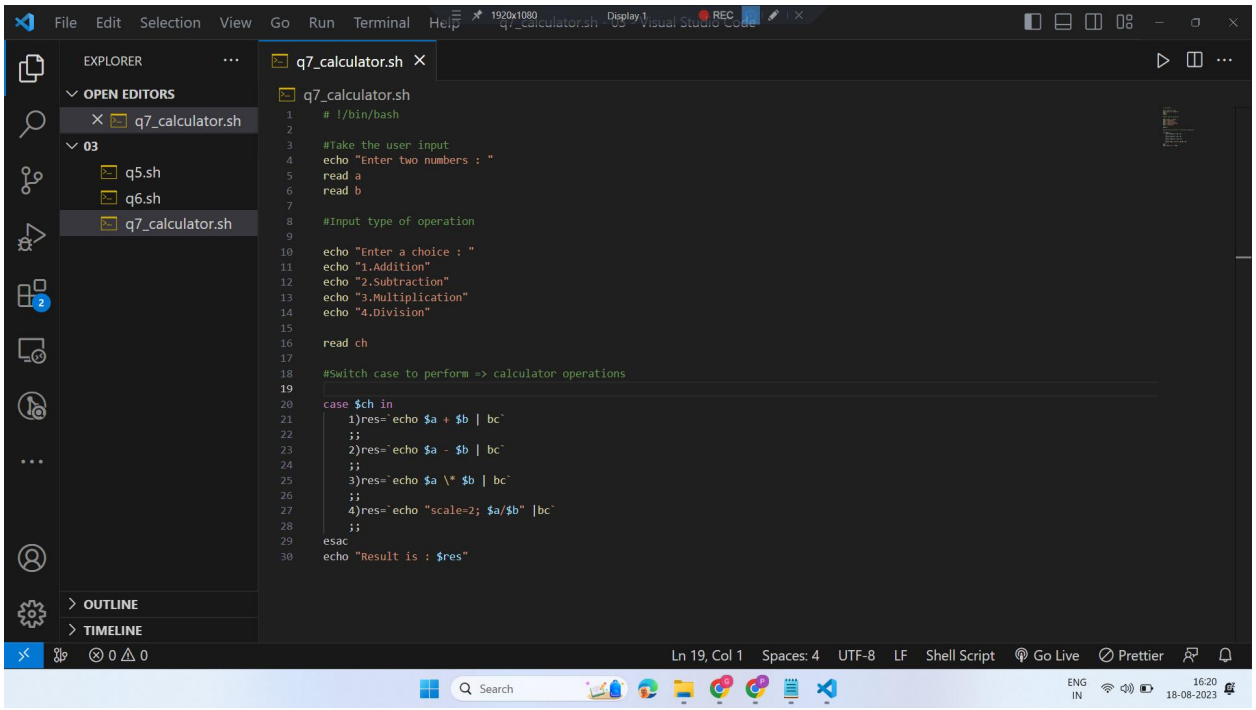
```
#!/bin/bash
# Calculate the sum of two integers with pre initialize values
# in a shell script

a=10
b=20

sum=$(( $a + $b ))

echo "Sum is: $sum"
```



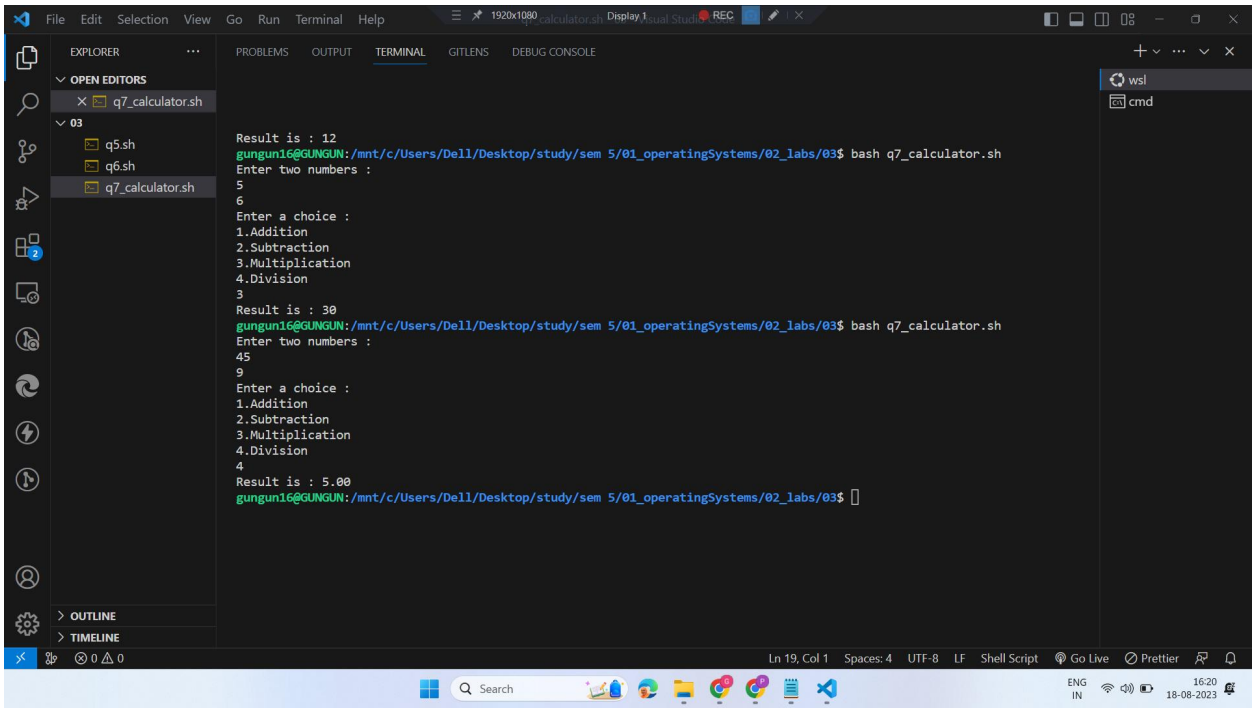
Que 5 .Find out the largest number among the following

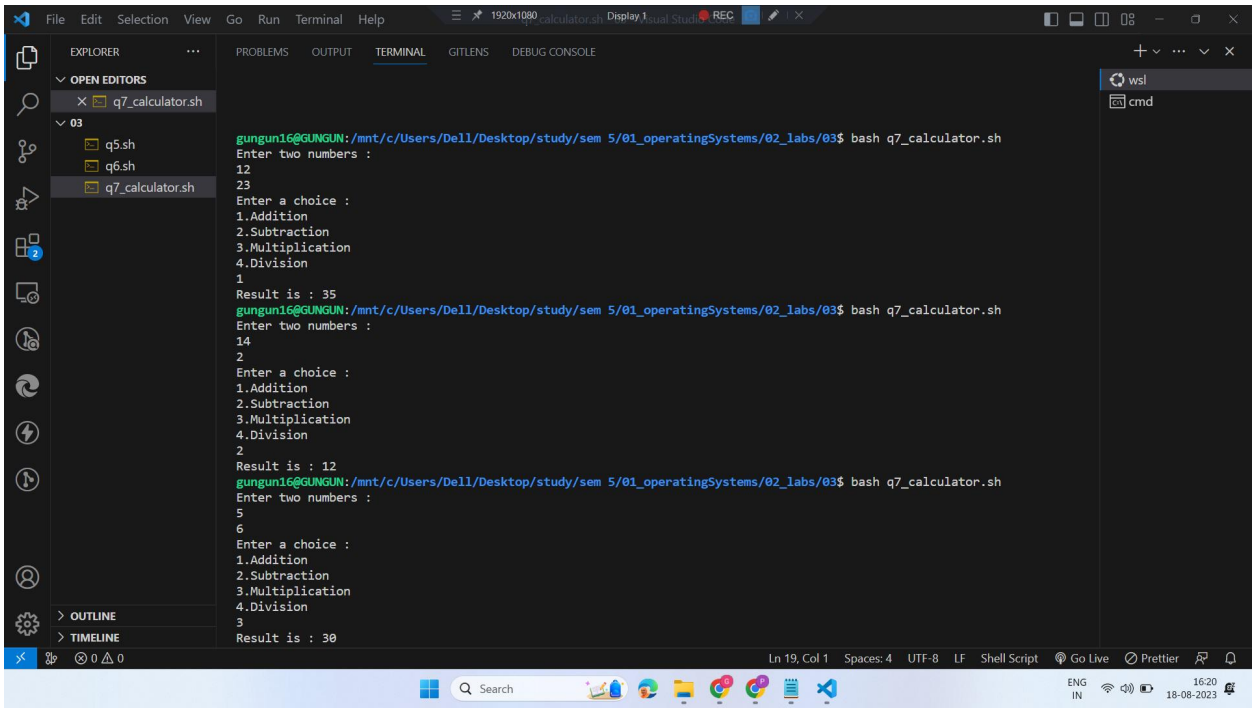


Que 6 Make a simple calculator



Output of the different calculations :





Que7. Count the number of words,spaces,characters and lines