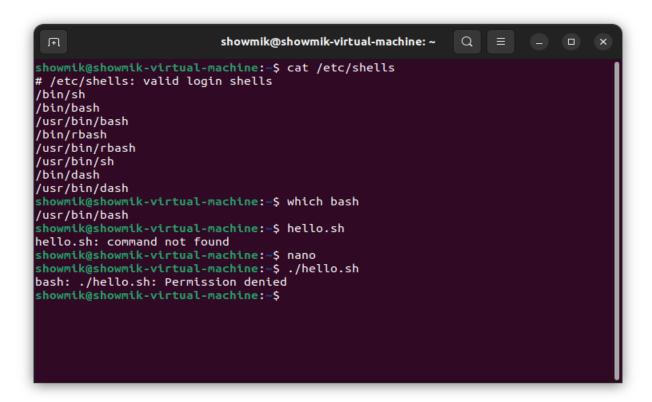
## Shell Code:

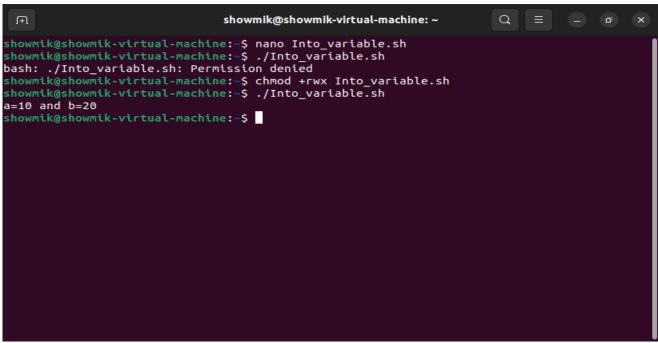
```
showmik@showmik-virtual-machine:~ Q = - D ×

showmik@showmik-virtual-machine:-$ cat /etc/shells

# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/usr/bin/rbash
/usr/bin/rbash
/usr/bin/sh
/bin/dash
/usr/bin/dash
showmik@showmik-virtual-machine:-$
```

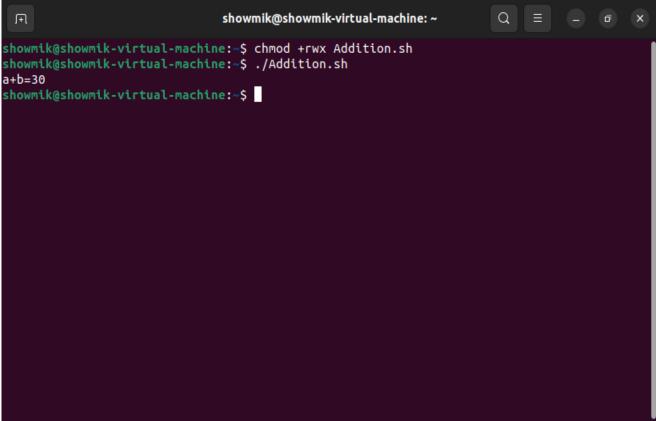




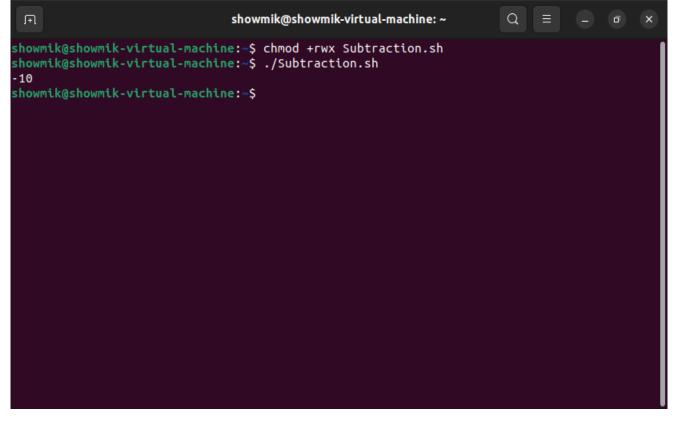


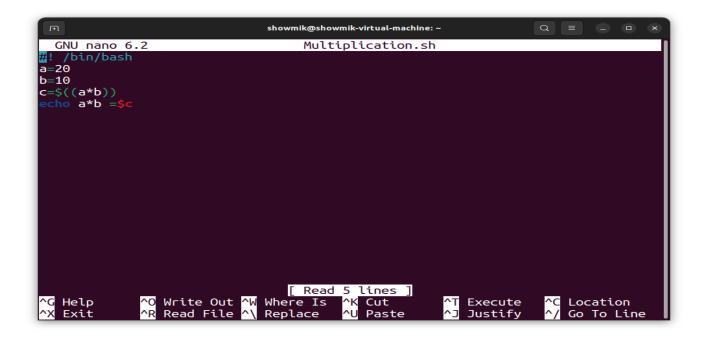
## Arithmetic Operations:





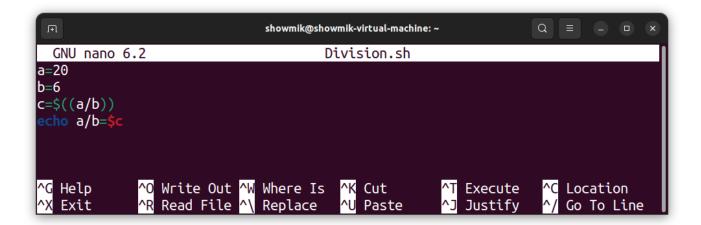






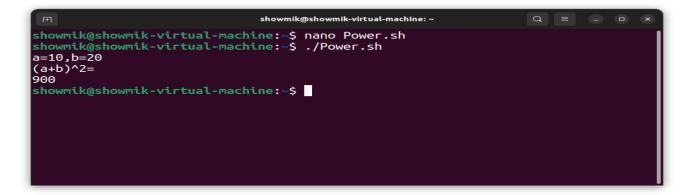
```
showmik@showmik-virtual-machine:~

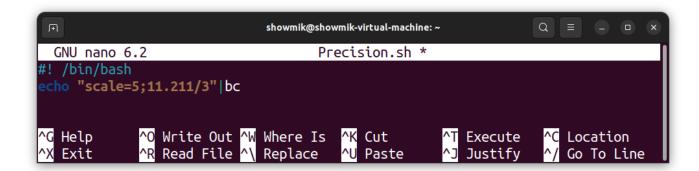
showmik@showmik-virtual-machine:~$ nano Multiplication.sh
showmik@showmik-virtual-machine:~$ chmod +rwx Multiplication.sh
showmik@showmik-virtual-machine:~$ ./Multiplication.sh
a*b =200
showmik@showmik-virtual-machine:~$
```



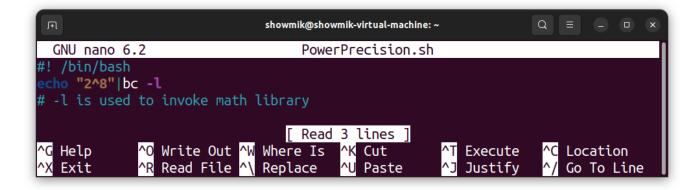
```
showmik@showmik-virtual-machine:~
showmik@showmik-virtual-machine:~$ nano Division.sh
showmik@showmik-virtual-machine:~$ chmod +rwx Division.sh
showmik@showmik-virtual-machine:~$ ./Division.sh
a/b=3
showmik@showmik-virtual-machine:~$
```

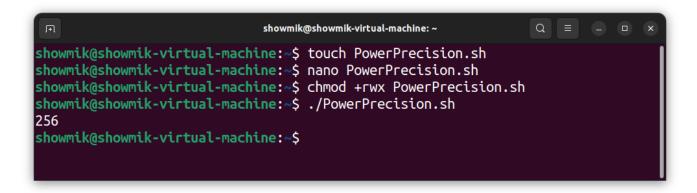






```
showmik@showmik-virtual-machine:~
showmik@showmik-virtual-machine:~$ touch Precision.sh
showmik@showmik-virtual-machine:~$ chmod +rwx Precision.sh
showmik@showmik-virtual-machine:~$ nano Precision.sh
showmik@showmik-virtual-machine:~$ ./Precision.sh
3.73700
showmik@showmik-virtual-machine:~$
```





```
showmik@showmik-virtual-machine:~

showmik@showmik-virtual-machine:~$ #square root
showmik@showmik-virtual-machine:~$ echo "scale=10;sqrt(13)"|bc -l
3.6055512754
showmik@showmik-virtual-machine:~$
```

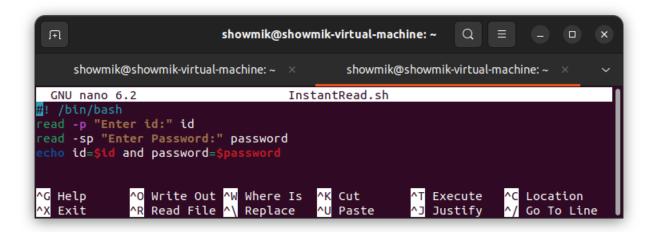
```
showmik@showmik-virtual-machine:~

showmik@showmik-virtual-machine:~$ x=$(echo "scale=10;sqrt(13)"|bc -l)

showmik@showmik-virtual-machine:~$ echo $x

3.6055512754

showmik@showmik-virtual-machine:~$
```



```
showmik@showmik-virtual-machine:~
showmik@showmik-virtual-machine:~$ touch InstantRead.sh
showmik@showmik-virtual-machine:~$ chmod +rwx InstantRead.sh
showmik@showmik-virtual-machine:~$ nano InstantRead.sh
showmik@showmik-virtual-machine:~$ ./InstantRead.sh
Enter id:10
Enter Password:id=10 and password=qwerty
showmik@showmik-virtual-machine:~$
```

## Even-Odd Detection:

```
showmik@showmik-virtual-machine: ~
 GNU nano 6.2
                                        EvenOdd.sh
#! /bin/bash
echo "Enter two numbers:"
read a b
c=$((a%2))
if [ $c -eq 0 ]
        echo $a is even
    else
        echo $a is odd
d=$((b%2))
if [ $d -eq 0 ]
then
        echo $b is even
        echo $b is odd
                                 [ Read 18 lines ]
              ^O Write Out ^W Where Is
^G Help
                                          ^K Cut
                                                        ^T Execute
                                                                      ^C Location
                                            Paste
  Exit
              ^R Read File ^\ Replace
                                                           Justify
                                                                         Go To Line
```

```
showmik@showmik-virtual-machine:~$ ./EvenOdd.sh
Enter two numbers:
20 21
20 is even
21 is odd
```

## Prime Number 1 to 100:

```
showmik@showmik-virtual-machine: ~
  GNU nano 6.2
                                          Prime.sh *
#Prime Number 1 to 100.
for((i=2;i<=100;i++))
                 a=0
                 b=$((i/2))
                 for((j=2;j<=b;j++))
                                   c=$((i%j))
                                   if [ $c -eq 0 ]
                                                     a=1
        if [ $a -eq 0 ]
File Name to Write: Prime.sh
                                                                  M-B Backup File
^T Browse
^G Help
                                            M-A Append
                      M-D DOS Format
^C Cancel
                                            M-P Prepend
                      M-M Mac Format
```

```
ſŦ
                            showmik@showmik-virtual-machine: ~
                                                                Q
showmik@showmik-virtual-machine:~$ touch Prime.sh
showmik@showmik-virtual-machine:~$ chmod +rwx Prime.sh
showmik@showmik-virtual-machine:~$ nano Prime.sh
showmik@showmik-virtual-machine:~$ ./Prime.sh
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
showmik@showmik-virtual-machine:~$
```