Aim : Shell program to find GCD of two numbers using cmd args.

output :

upreti @himanshu-upreti:~$ ./gcd.sh 18 21
GCD of 18 and 21 is 3

upreti @himanshu-upreti :~$ ./gcd.sh 12 24
GCD of 12 and 24 is 12

conclusion :

we have completed GCD of two numbers through command arguments.

Aim: Shell program to find GCD

Software Required: Ubuntu 18.04, terminal

Program:

```
num = $1
den = $2
if [ $2 -gt $1 ]
then num = $2
den = $1
fi
r = `expr $num % $den`
while [ $r -ve 0]
do
num = $den
den = $r
r = `expr $num % $den`
done
echo "GCD of $1 & $2 is $den"
```

Conclusion:

In this experiment, we have complete the GCD of two numbers taken through end.

Aim: Shell program to print multiplication table of a numbers using command arguments.

output:

upret@himanshu-upreti:~$ ./box.sh 50

Multiplication table of 50

50 × 1 = 50
50 × 2 = 100
50 × 3 = 150
50 × 4 = 200
50 × 5 = 250
50 × 6 = 300
50 × 7 = 350
50 × 8 = 400
50 × 9 = 450
50 × 10 = 500

Conclusion:

multiplication we successfully computed the command table given

Aim: Shell program to print multiplication table for
a number using commands.

Software Required: Ubuntu 18.04 LTS

Program:

(1) Using For loop

```
echo "Multiplication Table of $1"
for ((i=1; i<=10; i++))
do
echo "$1 * $i = `expr $1 * $i`"
done
```

[2] Using for while.. do loop

```
echo "Multiplication table of $1"
j=1
while [$j -le 10]
do
echo "$1 * $j = `expr $1 * $j`"
j=`expr $j+1`
done
```

Conclusion:
In this experiment, we have computed the
multiplication table of a number given as command

Aim: Shell program to create a user, change user password & delete user using care. utility.

password & delete user using care. utility.

Software Required: Ubuntu 18.04, terminal

Program:

```
while [true]
do
echo " "
echo "Menu..."
echo "1. Create a user"
echo "2. Change user password"
echo "3. Delete a user"
echo "4. Exit"
read -p 'Enter your choice (1-4):';
case $i in

1) echo " "
   read -p 'Enter a new username:' user
   sudo useradd $user
   echo "Creating a new user"
   ;;

2) echo " "
   read -p "Enter a username:" user
   sudo passwd $user
   ;;
```

3) echo " "
   read P "Enter a username:" User
   sudo usradd User
   ;;

4) break;
   *) echo "Invalid Choice "
   ;;
   esac
   done

Conclusion :
   In this experiment we have
ob: demonstrated case statement in shell
pogramming by creating a menu-driven program.