## **Tasks on Shell Scripting**

1. use the 'bc' command to perform all arithmetic operations

```
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$ read num1
10
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$ read num2
20
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$ echo "$num1 + $num2" | bc
30
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$
```

2. Write a shell script to find the total disk space and the space Utilized.

```
vineet@DESKTOP-M1MSH4M: /mnt/c/Users/Vineet
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$ df -h
Filesystem
               Size Used Avail Use% Mounted on
rootfs
               248G
                      95G 153G 39% /
                      95G 153G 39% /dev
none
               248G
                      95G 153G 39% /run
none
               248G
                      95G 153G 39% /run/lock
none
               248G
                     95G 153G 39% /run/shm
               248G
none
               248G
                      95G 153G 39% /run/user
none
tmpfs
                      95G 153G 39% /sys/fs/cgroup
                248G
               248G 95G 153G 39% /mnt/c
C:\
E:\
                     120G 174G 41% /mnt/e
                293G
F:\
               391G
                     205G 186G 53% /mnt/f
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$
```

3. Write a shell script to check if the host (server) is active and client is connected if not display an message that could not connect to the server.

4. Write a shell script to delete all the old files in /home directory. if the file is more than 6 months old then delete the file.

hint :: use find and touch commands.

```
wineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$ find vimfiles type f -mtime +30
vimfiles/colors
vimfiles/compiler
vimfiles/doc
vimfiles/ftdetect
vimfiles/ftplugin
vimfiles/indent
vimfiles/keymap
vimfiles/plugin
vimfiles/plugin
vimfiles/plugin
vimfiles/plugin
vimfiles/compiler
vimfiles/keymap
vimfiles/indent
vimfiles/keymap
vimfiles/plugin
vimfiles/plugin
vimfiles/syntax
find: 'type': No such file or directory
find: 'f': No such file or directory
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$ find vimfiles -name "*.log" -type f -mtime +30 -delete
vineet@DESKTOP-M1MSH4M:/mnt/c/Users/Vineet$
```

5. Write a shell script to create the back up of all the files that are present in the machine.

6. Write a shell script to disable all the inactive users.