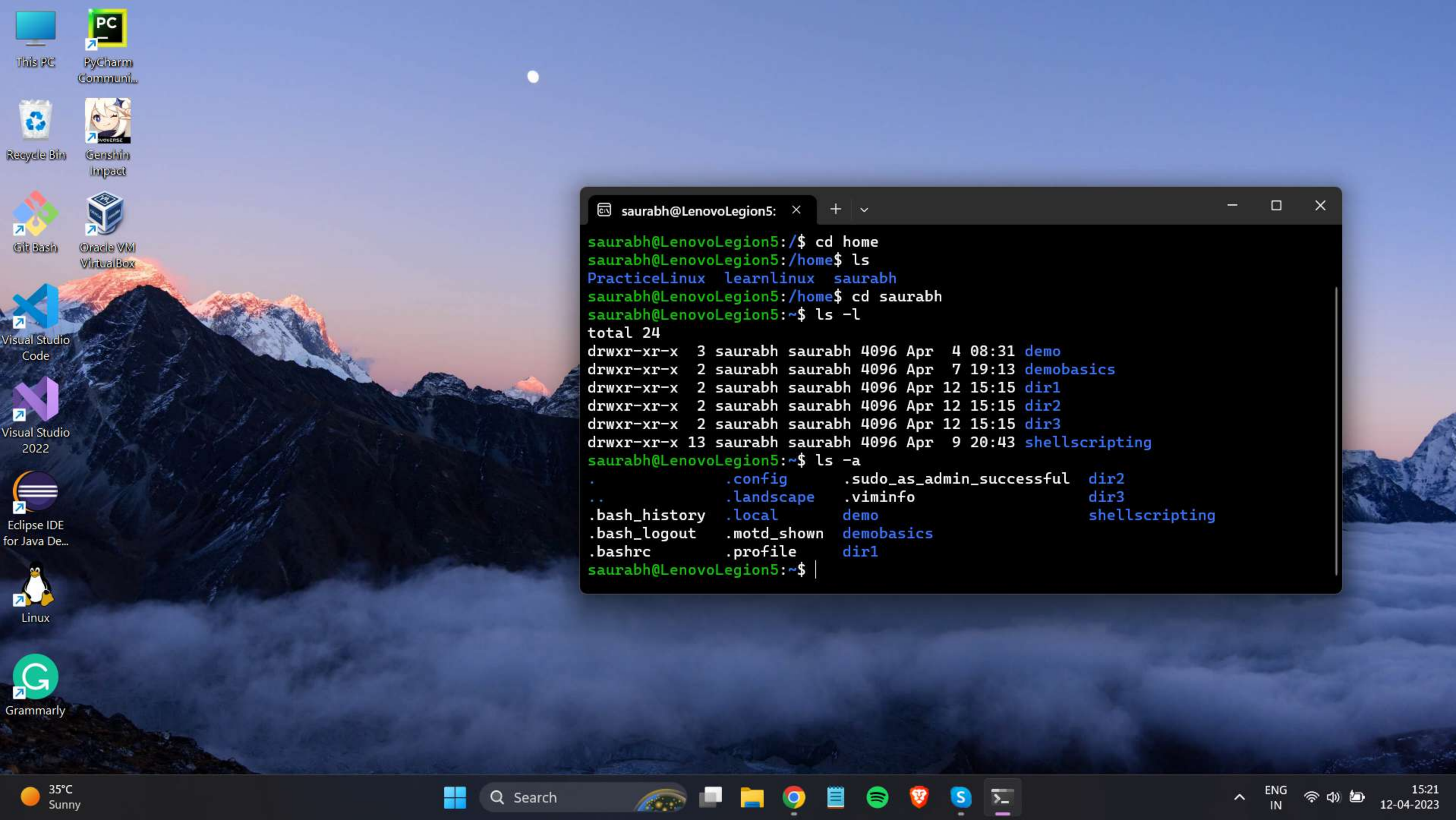


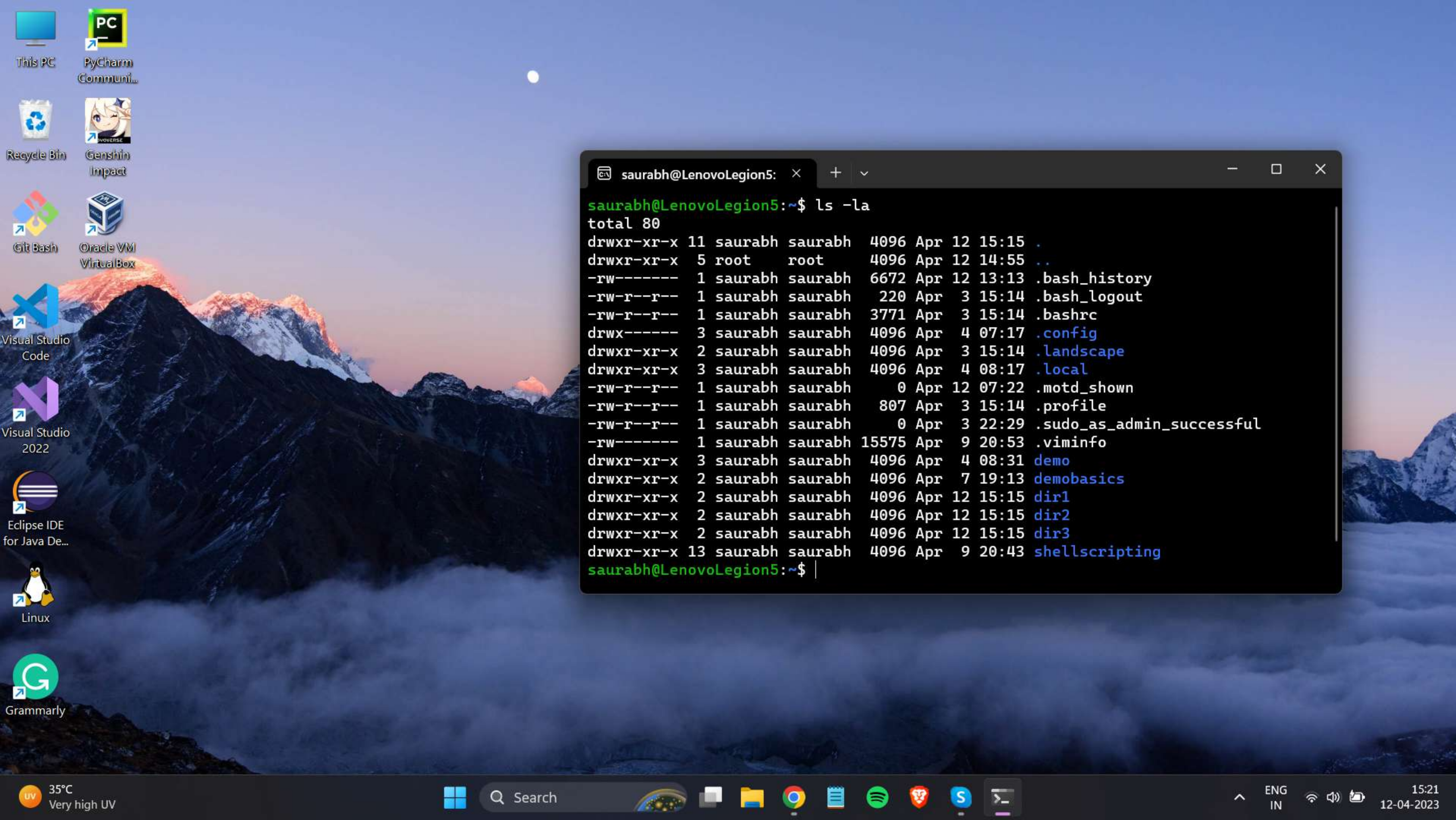
```
saurabh@LenovoLegion5: x + v - □ ×  
saurabh@LenovoLegion5:/$ ls  
bin  dev  home  lib    lib64  lost+found  mnt  proc  run  snap  sys  usr  
boot  etc  init  lib32  libx32  media      opt  root  sbin  srv   tmp  var  
saurabh@LenovoLegion5:/$
```

saurabh@LenovoLegion5: x + v

```
saurabh@LenovoLegion5:/$ cd home
saurabh@LenovoLegion5:/home$ ls
PracticeLinux learnlinux saurabh
saurabh@LenovoLegion5:/home$ cd saurabh
saurabh@LenovoLegion5:~$ ls -l
total 24
drwxr-xr-x  3 saurabh saurabh 4096 Apr  4 08:31 demo
drwxr-xr-x  2 saurabh saurabh 4096 Apr  7 19:13 demobasics
drwxr-xr-x  2 saurabh saurabh 4096 Apr 12 15:15 dir1
drwxr-xr-x  2 saurabh saurabh 4096 Apr 12 15:15 dir2
drwxr-xr-x  2 saurabh saurabh 4096 Apr 12 15:15 dir3
drwxr-xr-x 13 saurabh saurabh 4096 Apr  9 20:43 shellscripting
saurabh@LenovoLegion5:~$ ls -a
.          .config      .sudo_as_admin_successful  dir2
..         .landscape   .viminfo                   dir3
.bash_history .local       demo                       shellscripting
.bash_logout .motd_shown  demobasics
.bashrc      .profile     dir1
```

```
saurabh@LenovoLegion5:~$ |
```

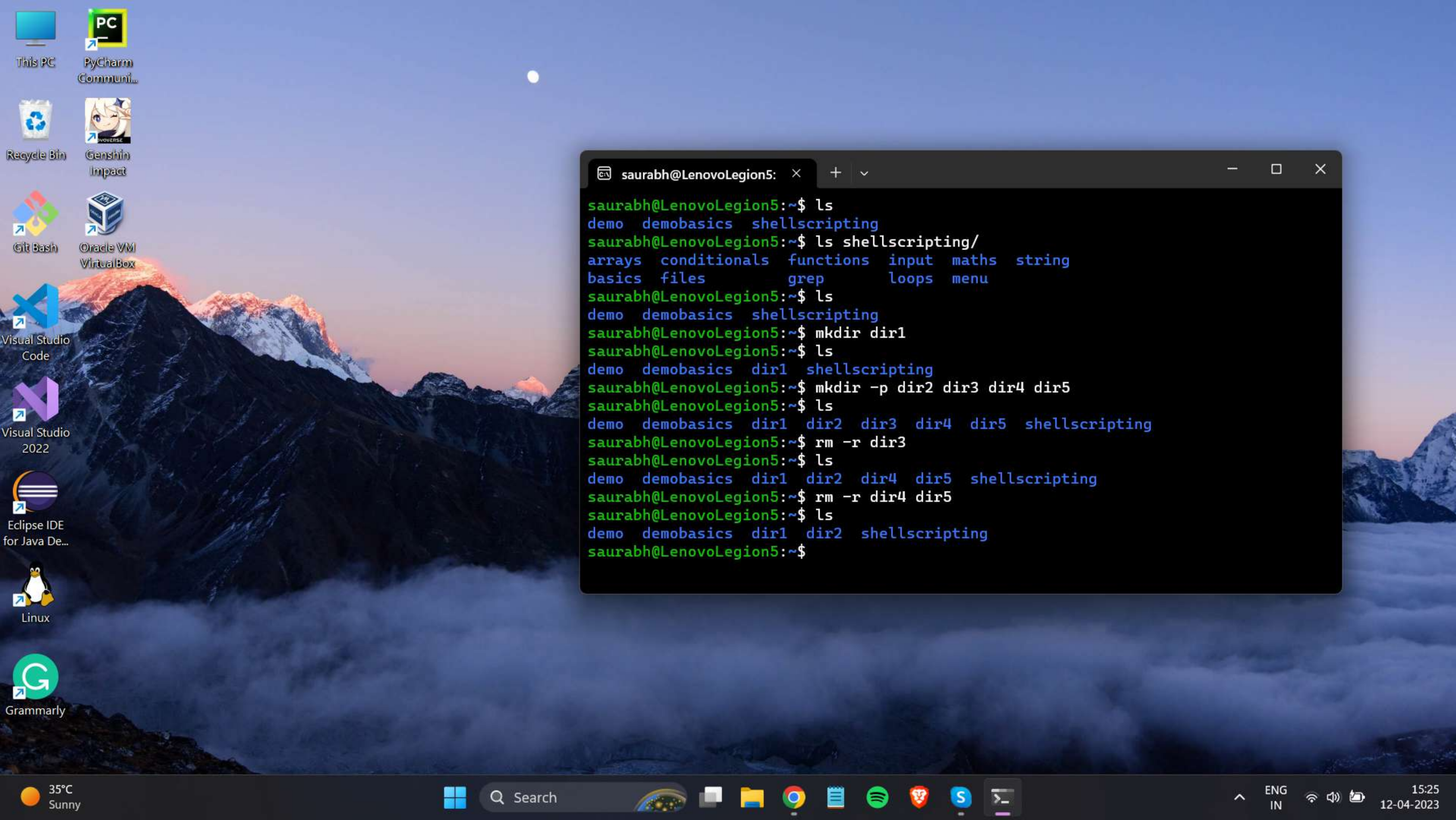
saurabh@LenovoLegion5: x + v

saurabh@LenovoLegion5:~\$ ls -la

total 80

drwxr-xr-x	11	saurabh	saurabh	4096	Apr	12	15:15	.
drwxr-xr-x	5	root	root	4096	Apr	12	14:55	..
-rw-----	1	saurabh	saurabh	6672	Apr	12	13:13	.bash_history
-rw-r--r--	1	saurabh	saurabh	220	Apr	3	15:14	.bash_logout
-rw-r--r--	1	saurabh	saurabh	3771	Apr	3	15:14	.bashrc
drwx-----	3	saurabh	saurabh	4096	Apr	4	07:17	.config
drwxr-xr-x	2	saurabh	saurabh	4096	Apr	3	15:14	.landscape
drwxr-xr-x	3	saurabh	saurabh	4096	Apr	4	08:17	.local
-rw-r--r--	1	saurabh	saurabh	0	Apr	12	07:22	.motd_shown
-rw-r--r--	1	saurabh	saurabh	807	Apr	3	15:14	.profile
-rw-r--r--	1	saurabh	saurabh	0	Apr	3	22:29	.sudo_as_admin_successful
-rw-----	1	saurabh	saurabh	15575	Apr	9	20:53	.viminfo
drwxr-xr-x	3	saurabh	saurabh	4096	Apr	4	08:31	demo
drwxr-xr-x	2	saurabh	saurabh	4096	Apr	7	19:13	demobasics
drwxr-xr-x	2	saurabh	saurabh	4096	Apr	12	15:15	dir1
drwxr-xr-x	2	saurabh	saurabh	4096	Apr	12	15:15	dir2
drwxr-xr-x	2	saurabh	saurabh	4096	Apr	12	15:15	dir3
drwxr-xr-x	13	saurabh	saurabh	4096	Apr	9	20:43	shellscripting

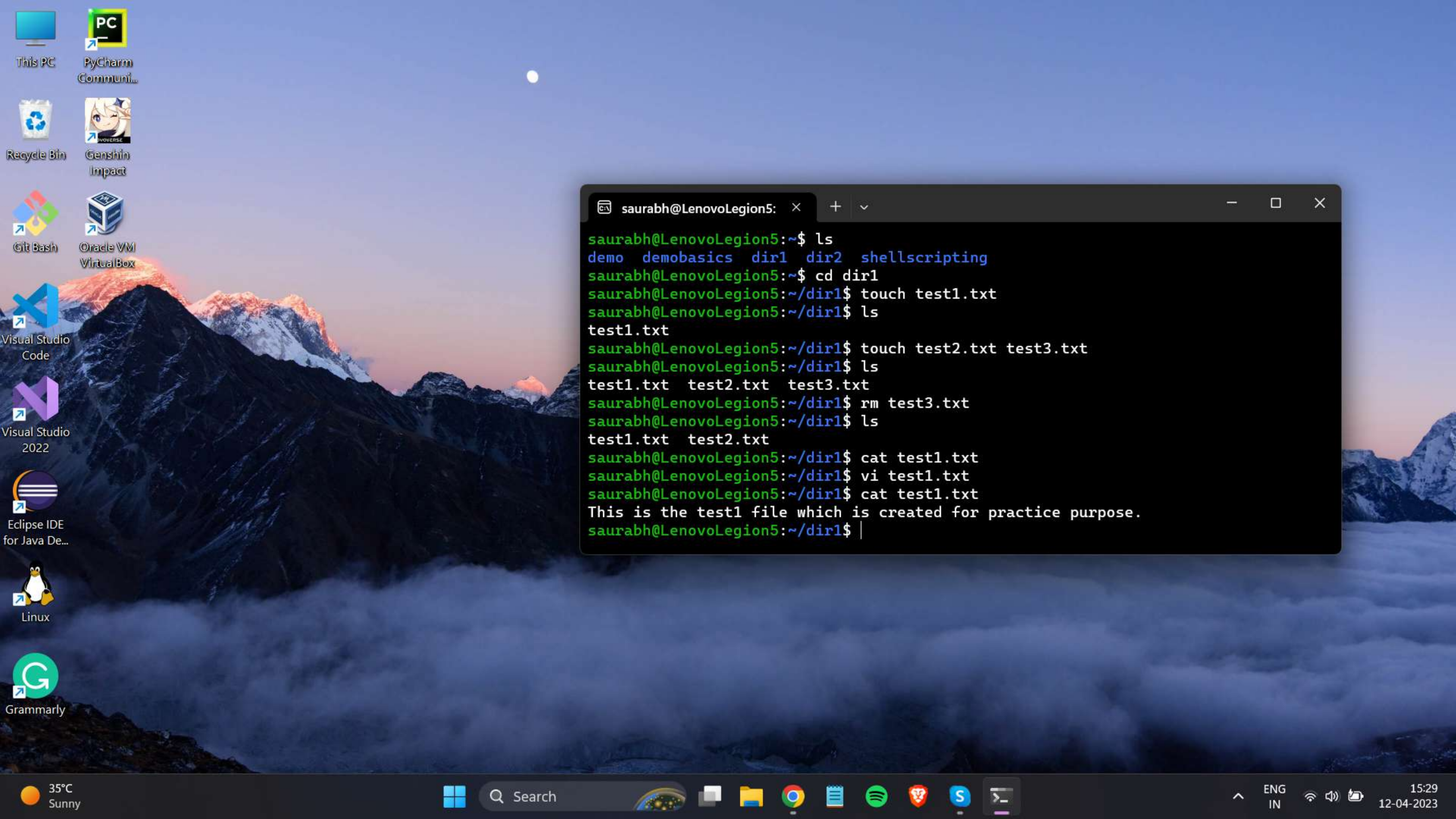
saurabh@LenovoLegion5:~\$ |



saurabh@LenovoLegion5: x + v

```
saurabh@LenovoLegion5:~$ ls
demo demobasics shellscripting
saurabh@LenovoLegion5:~$ ls shellscripting/
arrays conditionals functions input maths string
basics files grep loops menu
saurabh@LenovoLegion5:~$ ls
demo demobasics shellscripting
saurabh@LenovoLegion5:~$ mkdir dir1
saurabh@LenovoLegion5:~$ ls
demo demobasics dir1 shellscripting
saurabh@LenovoLegion5:~$ mkdir -p dir2 dir3 dir4 dir5
saurabh@LenovoLegion5:~$ ls
demo demobasics dir1 dir2 dir3 dir4 dir5 shellscripting
saurabh@LenovoLegion5:~$ rm -r dir3
saurabh@LenovoLegion5:~$ ls
demo demobasics dir1 dir2 dir4 dir5 shellscripting
saurabh@LenovoLegion5:~$ rm -r dir4 dir5
saurabh@LenovoLegion5:~$ ls
demo demobasics dir1 dir2 shellscripting
saurabh@LenovoLegion5:~$
```


[illegible]

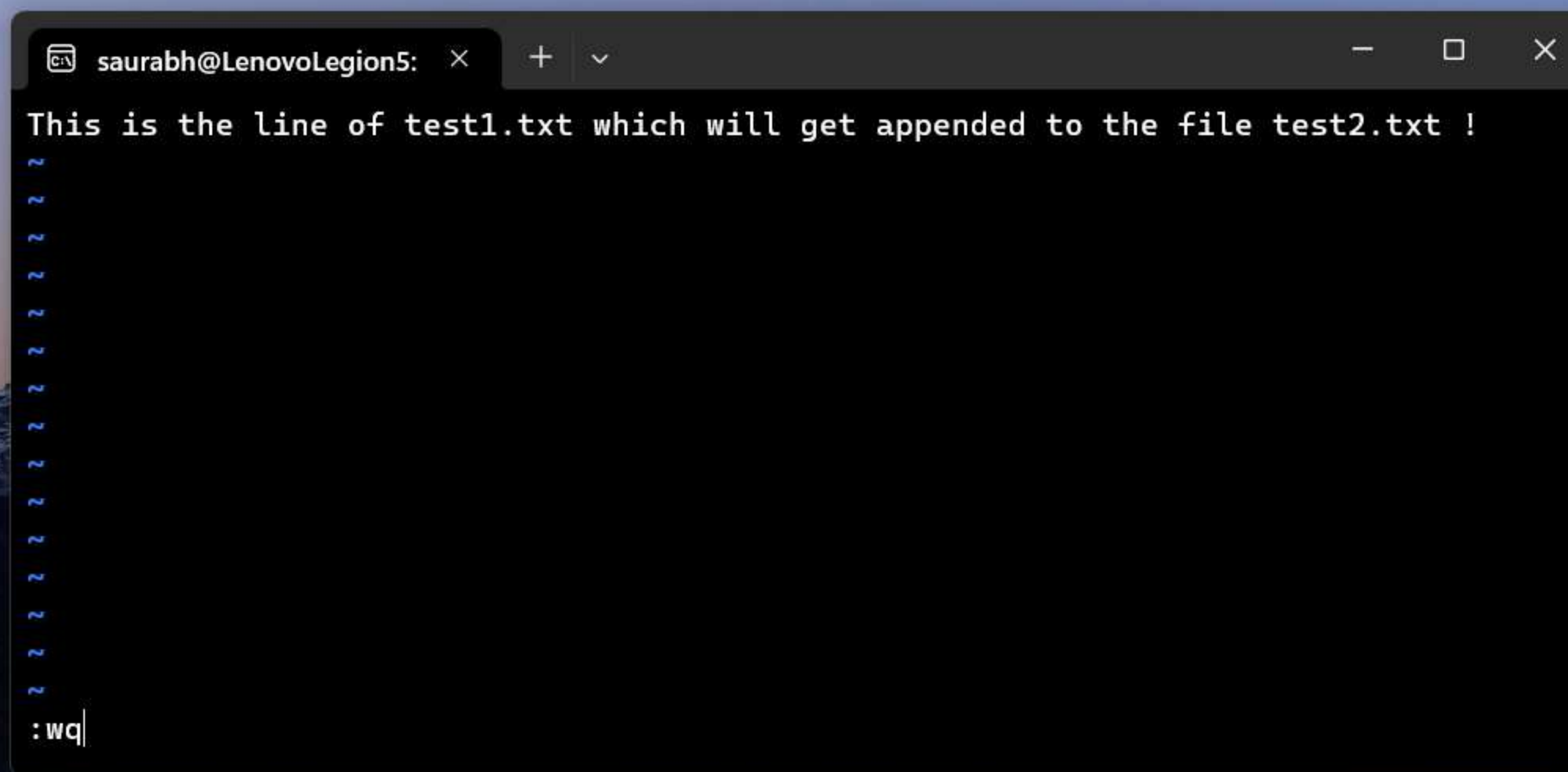


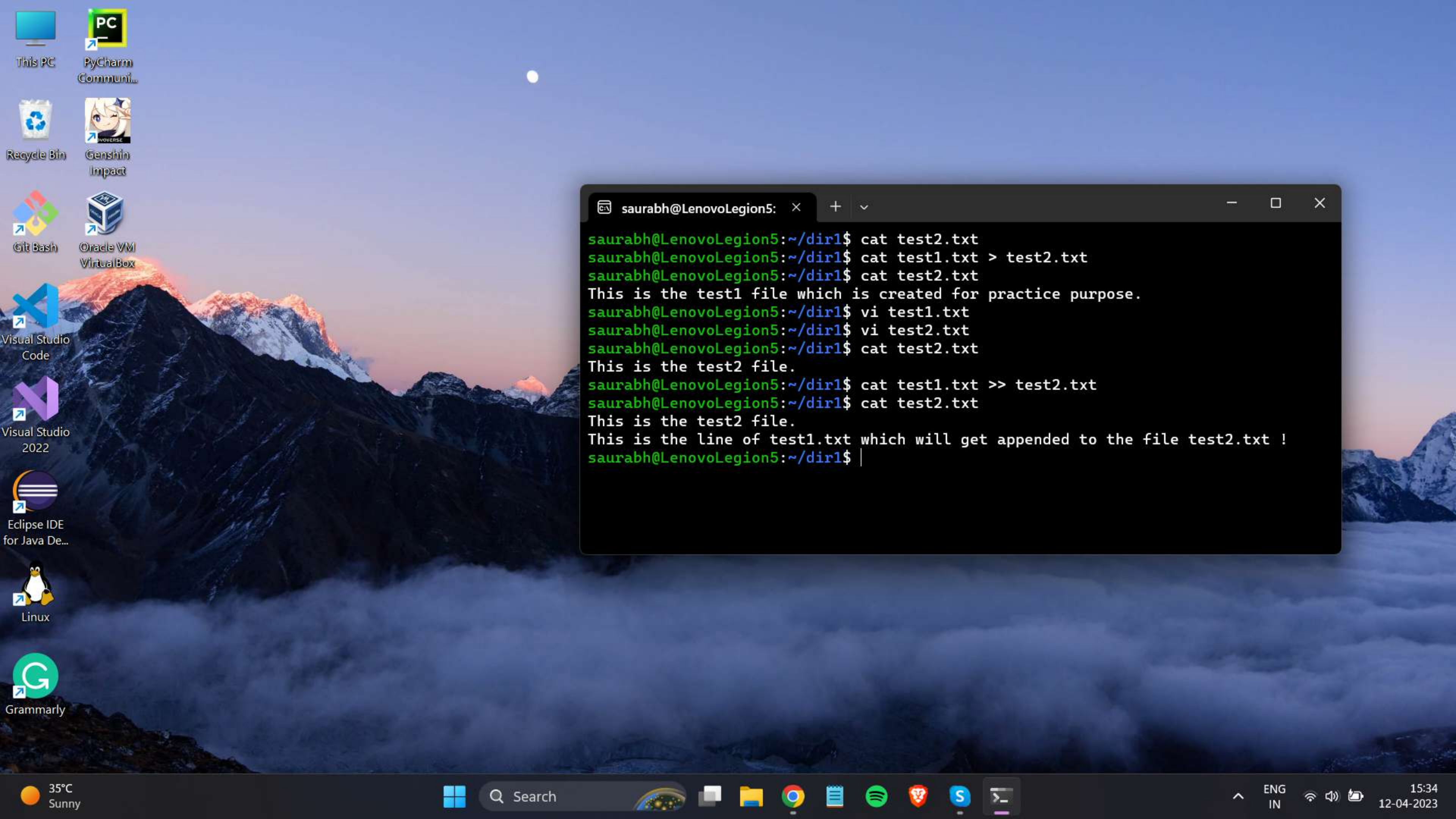
saurabh@LenovoLegion5: x

+ v

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```
saurabh@LenovoLegion5:~$ ls
demo  demobasics  dir1  dir2  shellscripting
saurabh@LenovoLegion5:~$ cd dir1
saurabh@LenovoLegion5:~/dir1$ touch test1.txt
saurabh@LenovoLegion5:~/dir1$ ls
test1.txt
saurabh@LenovoLegion5:~/dir1$ touch test2.txt test3.txt
saurabh@LenovoLegion5:~/dir1$ ls
test1.txt  test2.txt  test3.txt
saurabh@LenovoLegion5:~/dir1$ rm test3.txt
saurabh@LenovoLegion5:~/dir1$ ls
test1.txt  test2.txt
saurabh@LenovoLegion5:~/dir1$ cat test1.txt
saurabh@LenovoLegion5:~/dir1$ vi test1.txt
saurabh@LenovoLegion5:~/dir1$ cat test1.txt
This is the test1 file which is created for practice purpose.
saurabh@LenovoLegion5:~/dir1$ |
```

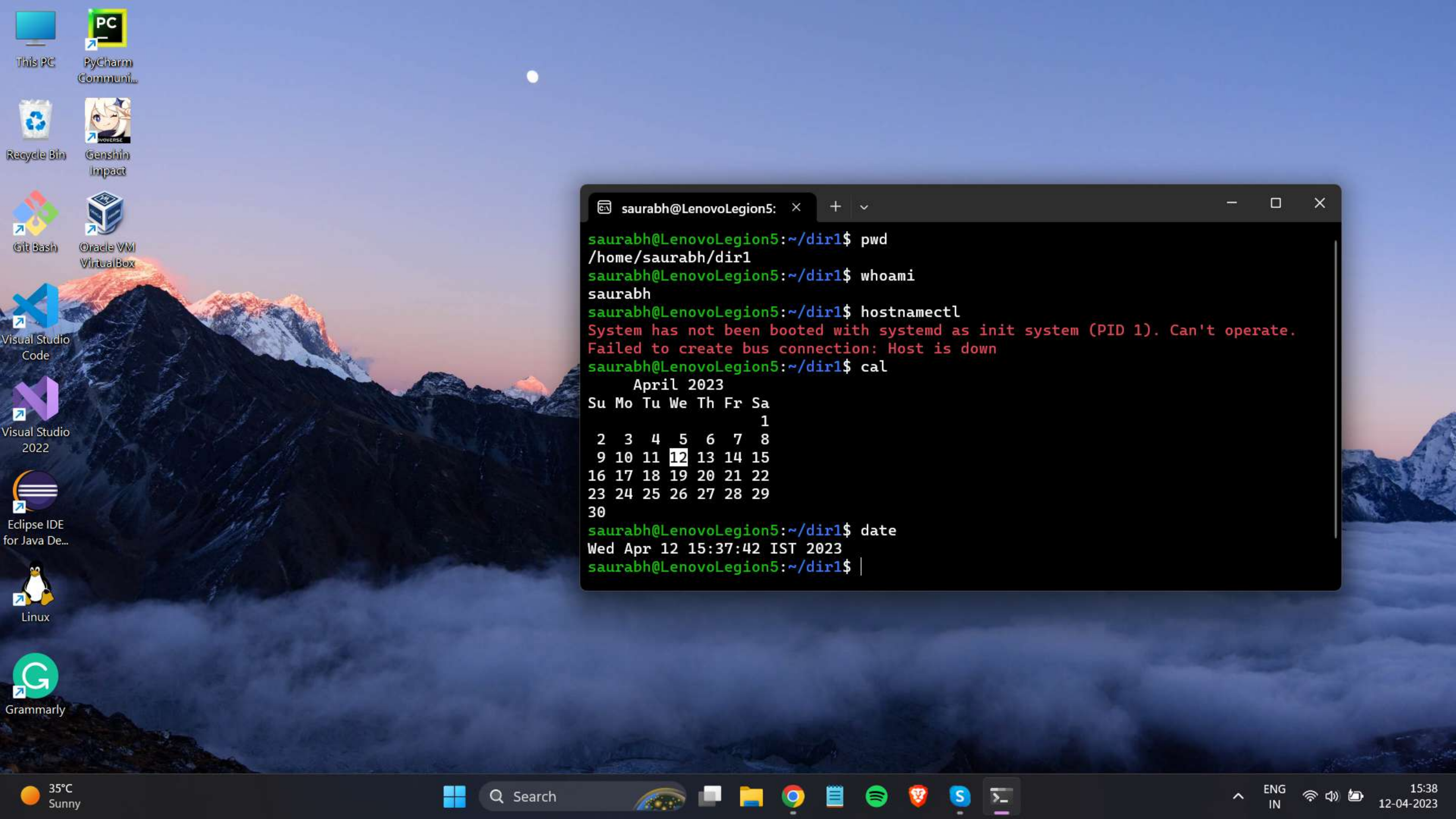


saaurabh@LenovoLegion5: x

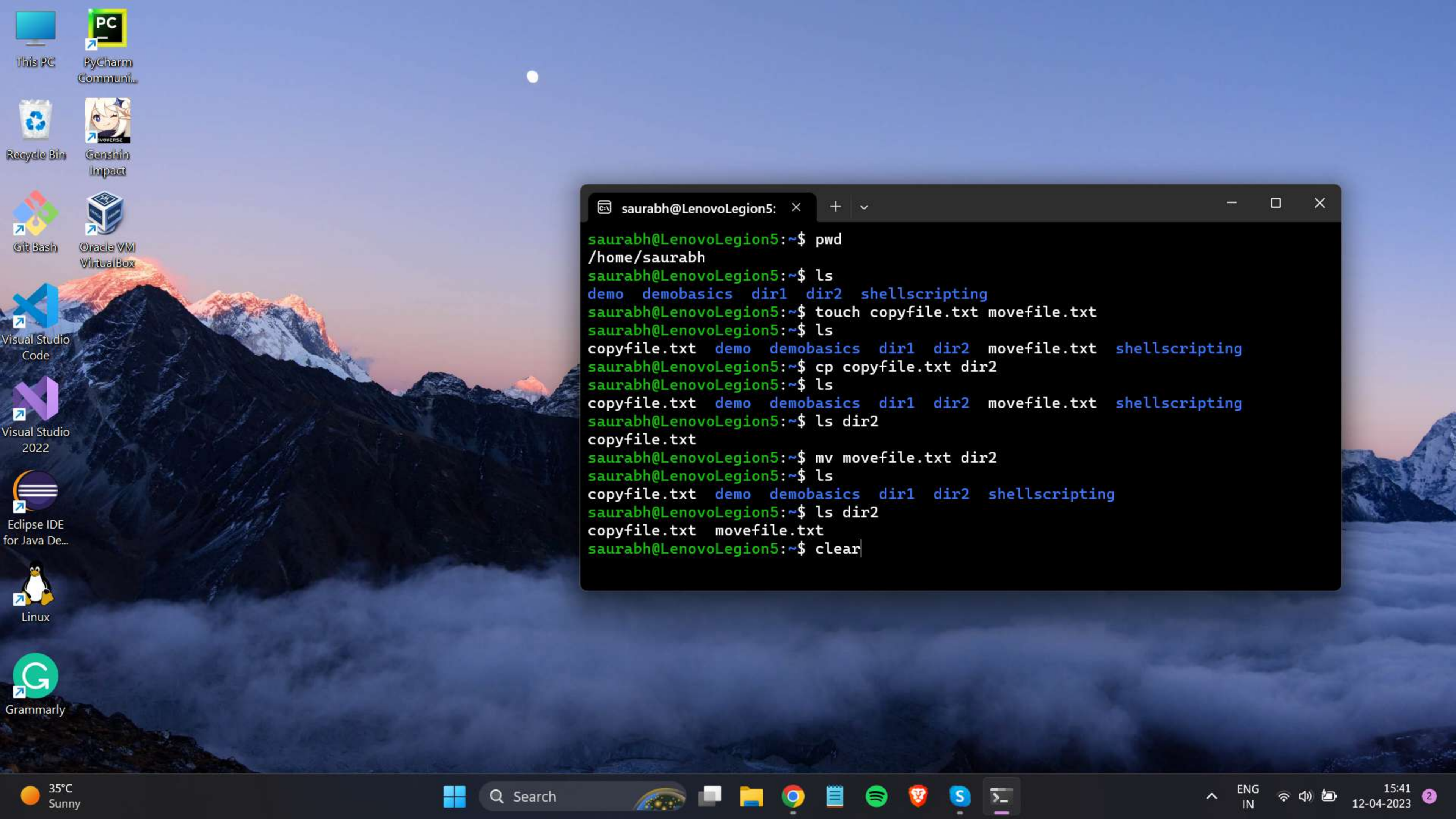
+ v

- □ ×

```
saaurabh@LenovoLegion5:~/dir1$ cat test2.txt
saaurabh@LenovoLegion5:~/dir1$ cat test1.txt > test2.txt
saaurabh@LenovoLegion5:~/dir1$ cat test2.txt
This is the test1 file which is created for practice purpose.
saaurabh@LenovoLegion5:~/dir1$ vi test1.txt
saaurabh@LenovoLegion5:~/dir1$ vi test2.txt
saaurabh@LenovoLegion5:~/dir1$ cat test2.txt
This is the test2 file.
saaurabh@LenovoLegion5:~/dir1$ cat test1.txt >> test2.txt
saaurabh@LenovoLegion5:~/dir1$ cat test2.txt
This is the test2 file.
This is the line of test1.txt which will get appended to the file test2.txt !
saaurabh@LenovoLegion5:~/dir1$ |
```

```
saurabh@LenovoLegion5: ~/dir1$ pwd
/home/saurabh/dir1
saurabh@LenovoLegion5: ~/dir1$ whoami
saurabh
saurabh@LenovoLegion5: ~/dir1$ hostnamectl
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to create bus connection: Host is down
saurabh@LenovoLegion5: ~/dir1$ cal
      April 2023
Su Mo Tu We Th Fr Sa
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
saurabh@LenovoLegion5: ~/dir1$ date
Wed Apr 12 15:37:42 IST 2023
saurabh@LenovoLegion5: ~/dir1$ |
```

saaurabh@LenovoLegion5: ~

```
saaurabh@LenovoLegion5:~$ pwd
```

```
/home/saaurabh
```

```
saaurabh@LenovoLegion5:~$ ls
```

```
demo demobasics dir1 dir2 shellscripting
```

```
saaurabh@LenovoLegion5:~$ touch copyfile.txt movefile.txt
```

```
saaurabh@LenovoLegion5:~$ ls
```

```
copyfile.txt demo demobasics dir1 dir2 movefile.txt shellscripting
```

```
saaurabh@LenovoLegion5:~$ cp copyfile.txt dir2
```

```
saaurabh@LenovoLegion5:~$ ls
```

```
copyfile.txt demo demobasics dir1 dir2 movefile.txt shellscripting
```

```
saaurabh@LenovoLegion5:~$ ls dir2
```

```
copyfile.txt
```

```
saaurabh@LenovoLegion5:~$ mv movefile.txt dir2
```

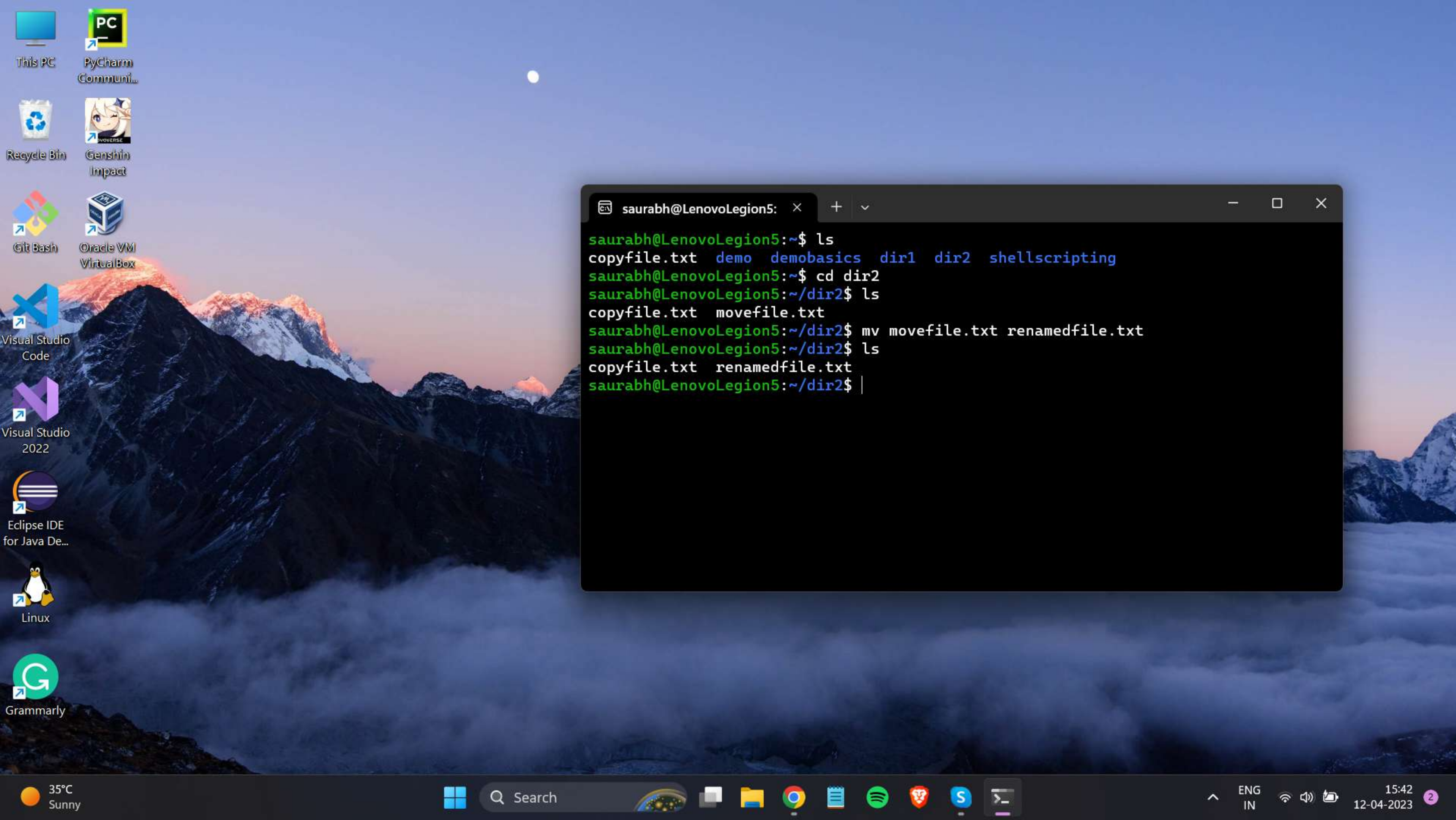
```
saaurabh@LenovoLegion5:~$ ls
```

```
copyfile.txt demo demobasics dir1 dir2 shellscripting
```

```
saaurabh@LenovoLegion5:~$ ls dir2
```

```
copyfile.txt movefile.txt
```

```
saaurabh@LenovoLegion5:~$ clear
```

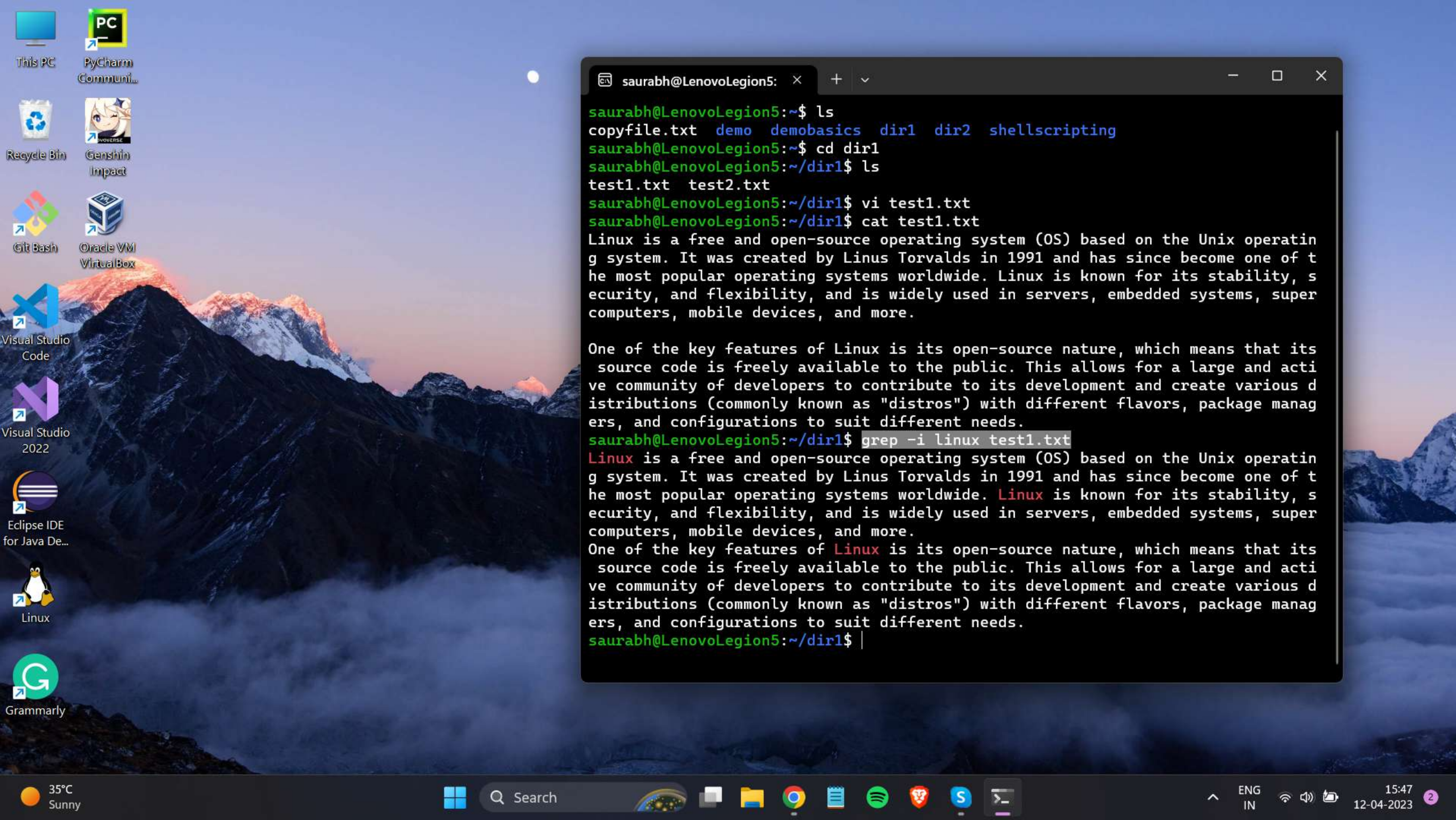
saurabh@LenovoLegion5: ×

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```
saurabh@LenovoLegion5:~$ ls
copyfile.txt  demo  demobasics  dir1  dir2  shellscripting
saurabh@LenovoLegion5:~$ cd dir2
saurabh@LenovoLegion5:~/dir2$ ls
copyfile.txt  movefile.txt
saurabh@LenovoLegion5:~/dir2$ mv movefile.txt renamedfile.txt
saurabh@LenovoLegion5:~/dir2$ ls
copyfile.txt  renamedfile.txt
saurabh@LenovoLegion5:~/dir2$ |
```





saurabh@LenovoLegion5: ~

```
saurabh@LenovoLegion5:~$ ls
copyfile.txt  demo  demobasics  dir1  dir2  shellscripting
```

```
saurabh@LenovoLegion5:~$ cd dir1
```

```
saurabh@LenovoLegion5:~/dir1$ ls
```

```
test1.txt  test2.txt
```

```
saurabh@LenovoLegion5:~/dir1$ vi test1.txt
```

```
saurabh@LenovoLegion5:~/dir1$ cat test1.txt
```

Linux is a free and open-source operating system (OS) based on the Unix operating system. It was created by Linus Torvalds in 1991 and has since become one of the most popular operating systems worldwide. Linux is known for its stability, security, and flexibility, and is widely used in servers, embedded systems, supercomputers, mobile devices, and more.

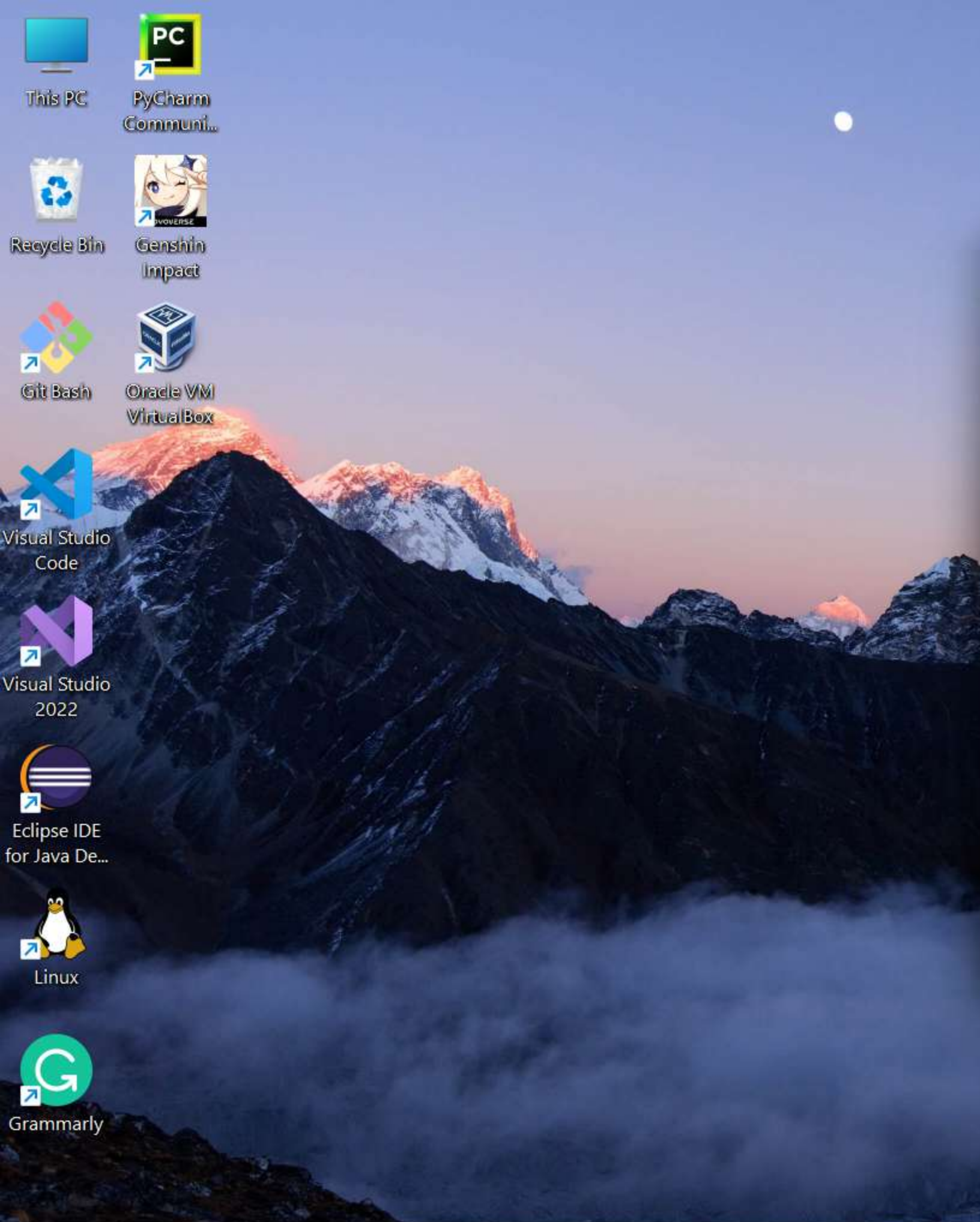
One of the key features of Linux is its open-source nature, which means that its source code is freely available to the public. This allows for a large and active community of developers to contribute to its development and create various distributions (commonly known as "distros") with different flavors, package managers, and configurations to suit different needs.

```
saurabh@LenovoLegion5:~/dir1$ grep -i linux test1.txt
```

Linux is a free and open-source operating system (OS) based on the Unix operating system. It was created by Linus Torvalds in 1991 and has since become one of the most popular operating systems worldwide. **Linux** is known for its stability, security, and flexibility, and is widely used in servers, embedded systems, supercomputers, mobile devices, and more.

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```
saurabh@LenovoLegion5:~/dir1$
```

```
saurabh@LenovoLegion5: ~$ cd ..
saurabh@LenovoLegion5: ~$ find dir2
dir2
dir2/copyfile.txt
dir2/renamedfile.txt
saurabh@LenovoLegion5: ~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/sdb         263174212  1539164 248196892   1% /
none             1849180      4    1849176   1% /mnt/wsl
tools            248751100 182232176 66518924   74% /init
none             1847096      0    1847096   0% /dev
none             1849180      4    1849176   1% /run
none             1849180      0    1849180   0% /run/lock
none             1849180      0    1849180   0% /run/shm
none             1849180      0    1849180   0% /run/user
tmpfs            1849180      0    1849180   0% /sys/fs/cgroup
drivers          248751100 182232176 66518924   74% /usr/lib/wsl/drivers
lib              248751100 182232176 66518924   74% /usr/lib/wsl/lib
drvfs            248751100 182232176 66518924   74% /mnt/c
drvfs            488365052 233922636 254442416  48% /mnt/d
drvfs            488379388 211974176 276405212  44% /mnt/e
saurabh@LenovoLegion5: ~$
```




```
saurabh@LenovoLegion5: ~$ du
8      ./shellscripting/arrays
24     ./shellscripting/string
4      ./shellscripting/input
8      ./shellscripting/maths
8      ./shellscripting/menu
12     ./shellscripting/grep
12     ./shellscripting/functions
24     ./shellscripting/loops
20     ./shellscripting/basics
4      ./shellscripting/files/directory
28     ./shellscripting/files
28     ./shellscripting/conditionals
180    ./shellscripting
4      ./landscape
4      ./config/procps
8      ./config
4      ./demobasics
4      ./demo/test1/test2
8      ./demo/test1
20     ./demo
4      ./dir2
4      ./local/share/nano
8      ./local/share
12     ./local
12     ./dir1
284    .
saurabh@LenovoLegion5: ~$
```

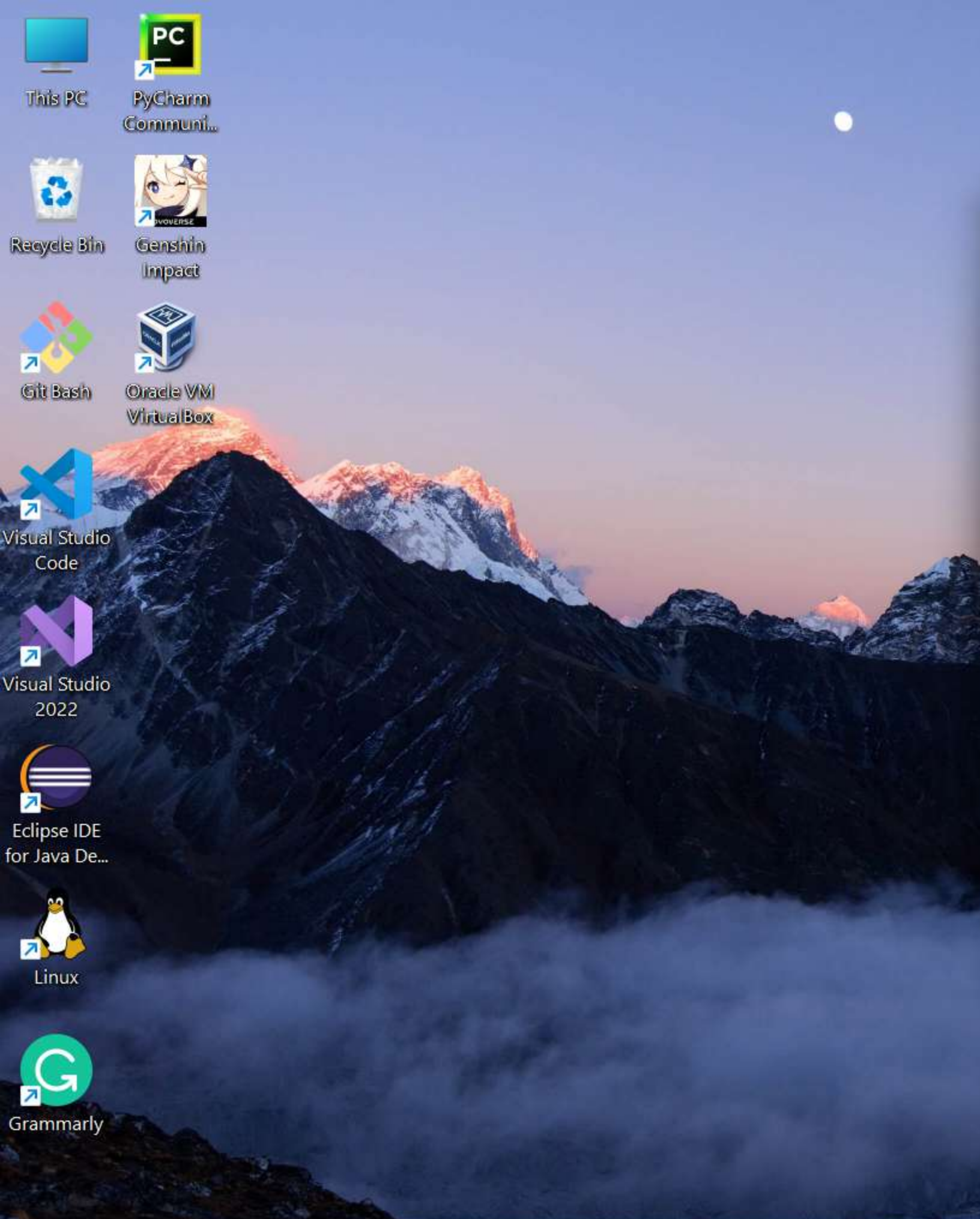



```
saurabh@LenovoLegion5: ~$ top
top - 15:52:53 up 59 min,  0 users,  load average: 0.00, 0.00, 0.00
Tasks:  5 total,   1 running,  4 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,   0.0 wa,   0.0 hi,   0.0 si,   0.0 st
MiB Mem :   3611.7 total,   3435.3 free,    93.2 used,    83.2 buff/cache
MiB Swap:   1024.0 total,   1024.0 free,    0.0 used.   3396.9 avail Mem

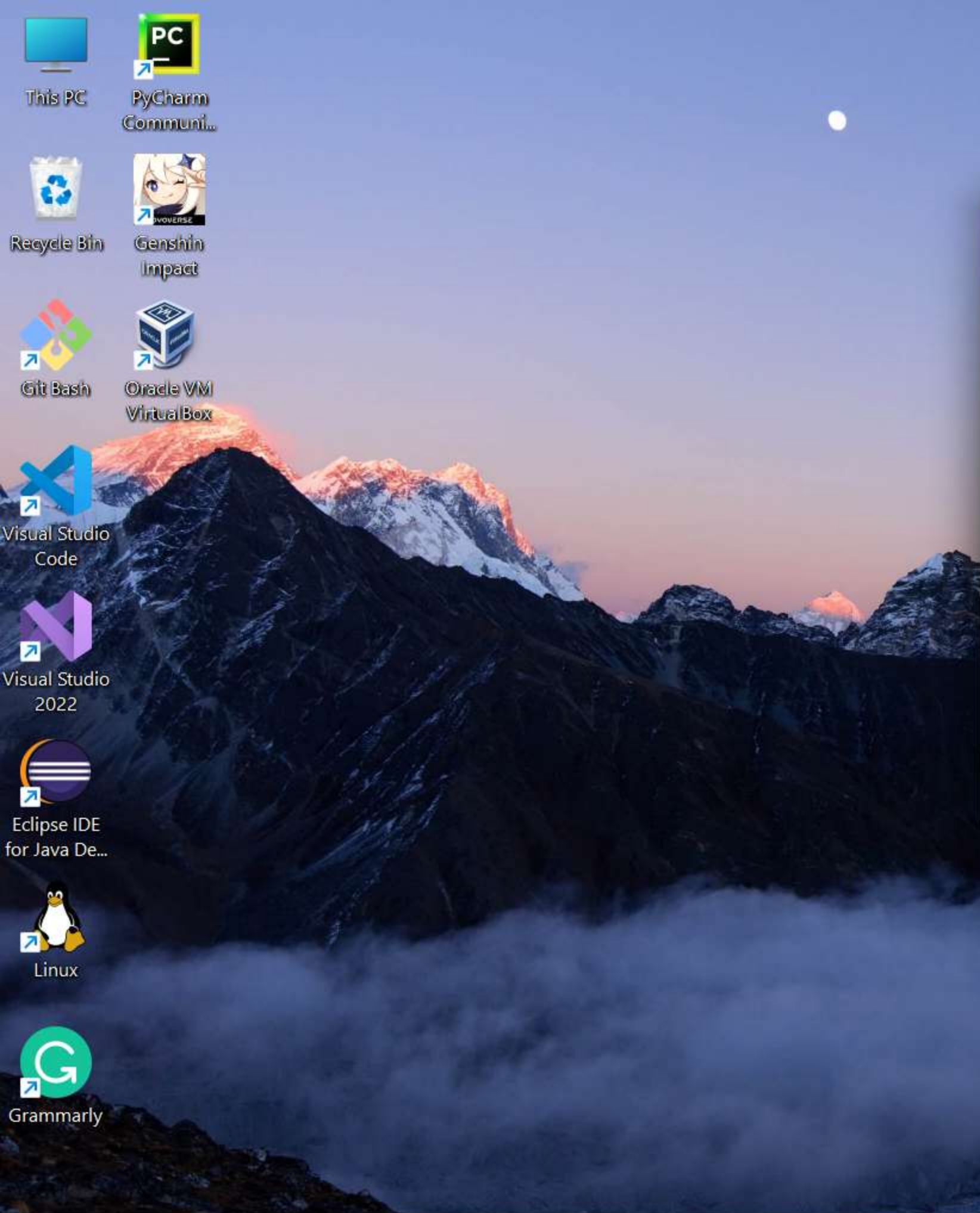
  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
    1 root        20   0   1816   1188  1108  S   0.0   0.0    0:00.02 init
    8 root        20   0   2176    364     0  S   0.0   0.0    0:00.00 init
    9 root        20   0   2176    376     0  S   0.0   0.0    0:00.64 init
   10 saurabh     20   0  10168   5232  3372  S   0.0   0.1    0:00.59 bash
  214 saurabh     20   0  10872   3696  3200  R   0.0   0.1    0:00.00 top
```




```
saurabh@LenovoLegion5: ~$ ps
  PID TTY          TIME CMD
   10 pts/0        00:00:00 bash
  216 pts/0        00:00:00 ps
saurabh@LenovoLegion5: ~$ echo Infobell IT solution
Infobell IT solution
saurabh@LenovoLegion5: ~$ |
```

```
saurabh@LenovoLegion5: x + v
saurabh@LenovoLegion5:~/dir1$ vi test2.txt
saurabh@LenovoLegion5:~/dir1$ head test2.txt
One
Two
Three
Four
Five
Six
Seven
Eight
Nine
Ten
saurabh@LenovoLegion5:~/dir1$ head -n 5 test2.txt
One
Two
Three
Four
Five
saurabh@LenovoLegion5:~/dir1$ clear
```

```
saurabh@LenovoLegion5: ~/dir1$ tail test2.txt
Nine
Ten
Eleven
Twelve
Thirteen
Fourteen
Fifteen
Sixteen
Seventeen

saurabh@LenovoLegion5: ~/dir1$ tail -n 5 test2.txt
Fourteen
Fifteen
Sixteen
Seventeen

saurabh@LenovoLegion5: ~/dir1$ |
```




```
saurabh@LenovoLegion5: ~/dir1$ ls
test1.txt  test2.txt
saurabh@LenovoLegion5: ~/dir1$ touch executable.sh
saurabh@LenovoLegion5: ~/dir1$ ls
executable.sh  test1.txt  test2.txt
saurabh@LenovoLegion5: ~/dir1$ ls -a
.  ..  executable.sh  test1.txt  test2.txt
saurabh@LenovoLegion5: ~/dir1$ ls -l
total 8
-rw-r--r-- 1 saurabh saurabh  0 Apr 12 16:06 executable.sh
-rw-r--r-- 1 saurabh saurabh 727 Apr 12 15:45 test1.txt
-rw-r--r-- 1 saurabh saurabh 108 Apr 12 16:01 test2.txt
saurabh@LenovoLegion5: ~/dir1$ chmod 744 executable.sh
saurabh@LenovoLegion5: ~/dir1$ ls -l
total 8
-rwxr--r-- 1 saurabh saurabh  0 Apr 12 16:06 executable.sh
-rw-r--r-- 1 saurabh saurabh 727 Apr 12 15:45 test1.txt
-rw-r--r-- 1 saurabh saurabh 108 Apr 12 16:01 test2.txt
saurabh@LenovoLegion5: ~/dir1$ |
```