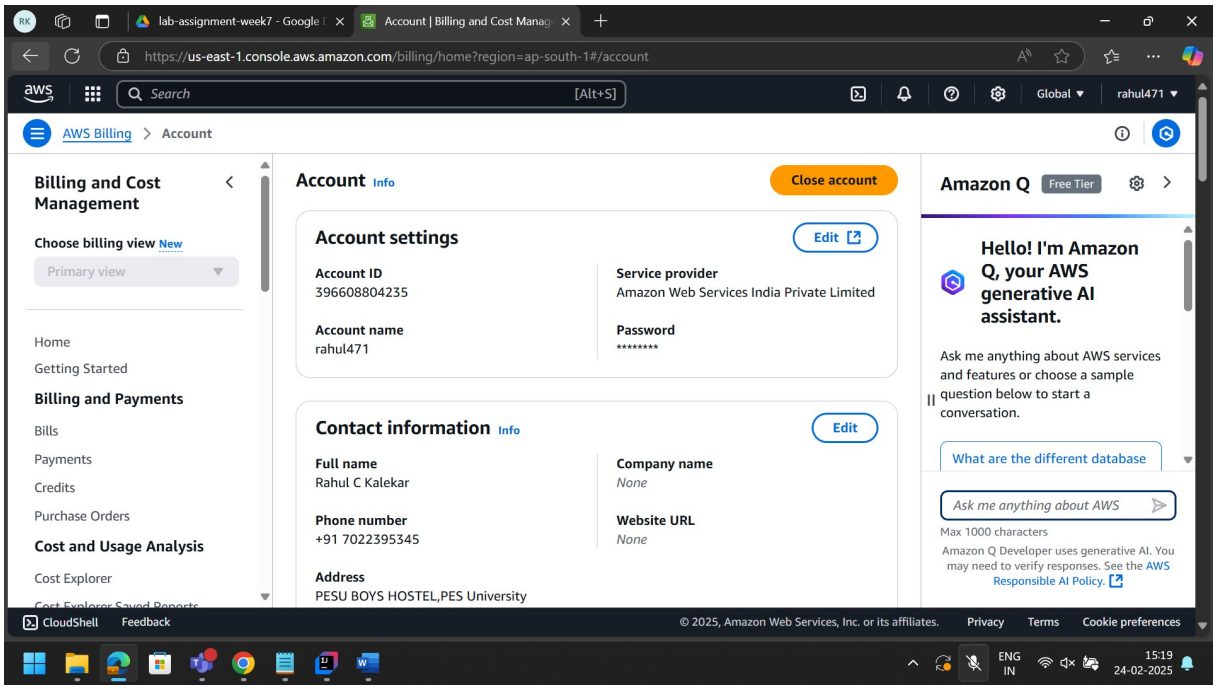
LAB ASSIGNMENTS 1: Linux command On EC2 instance

Instruction:
1. create aws account
2. aws iam user
3. Create EC2 instance as demonstrated in the session
4. Practice linux command on Ubuntu machine

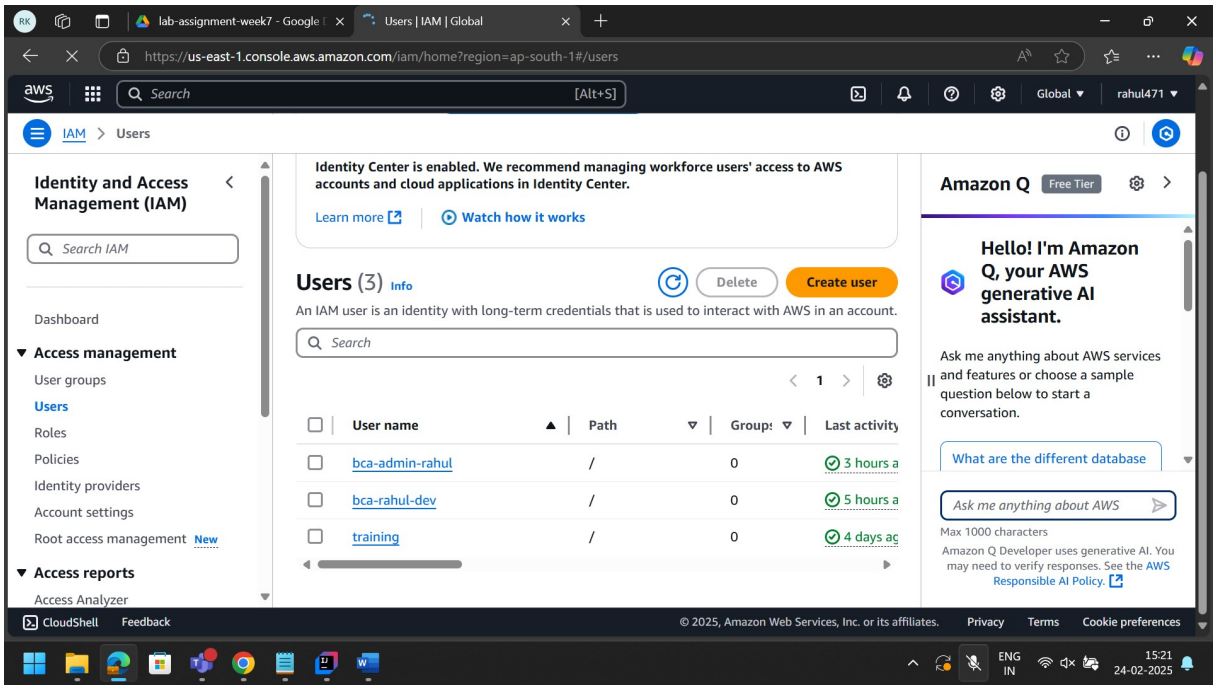
Practice all command from following categories as we discuss in the session

System and hardware informatation
User informatation and mgt
File and directory commands
file editing and navigation inside files
Piping and i/o redirection
Analysis and file manipulation commands
Wildcard chars
Package management
Services and Process mgt
file permission

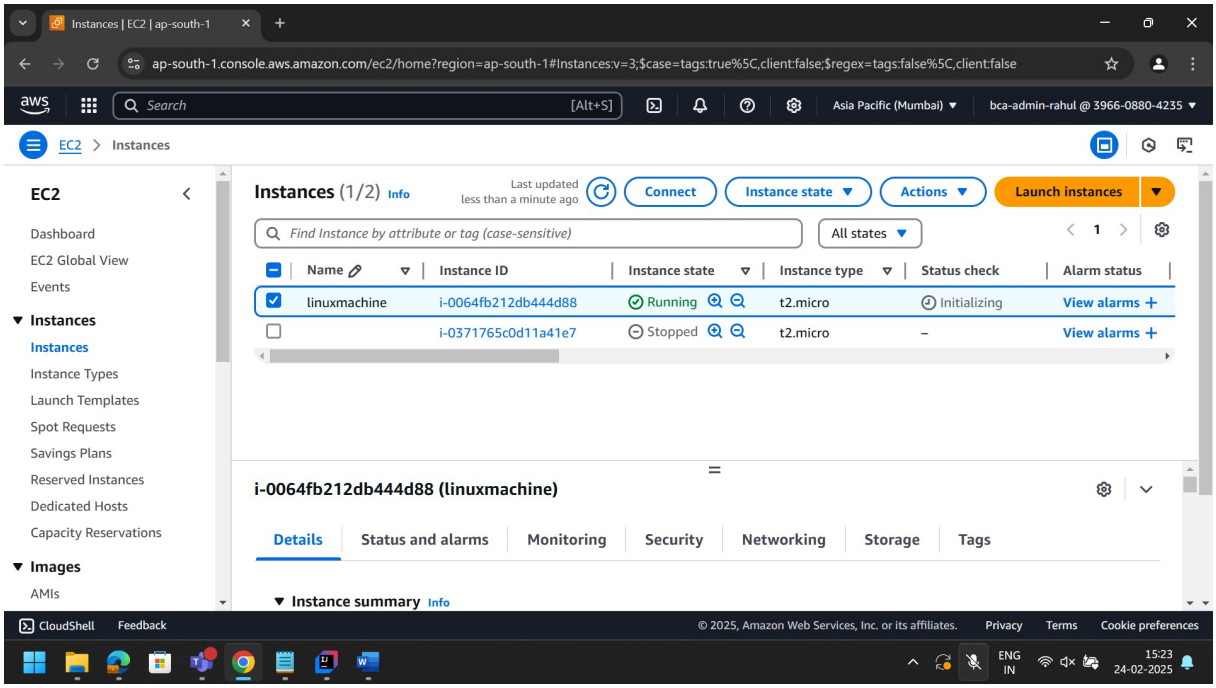
1.create aws account



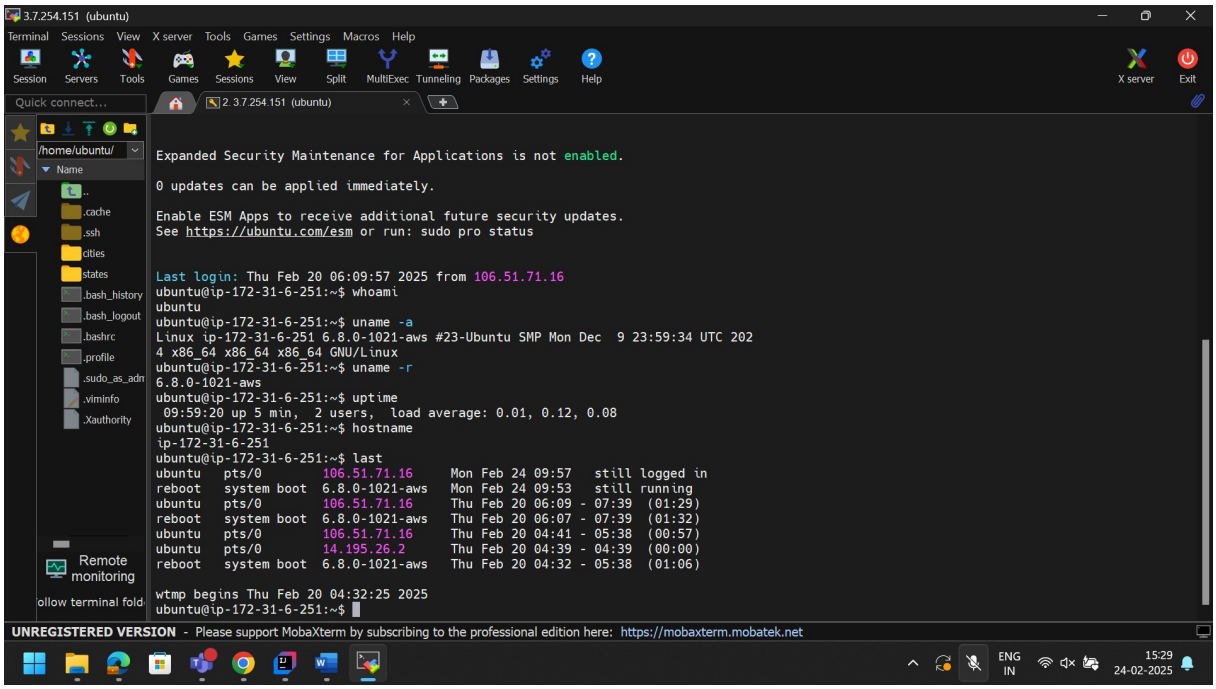
2. aws iam user

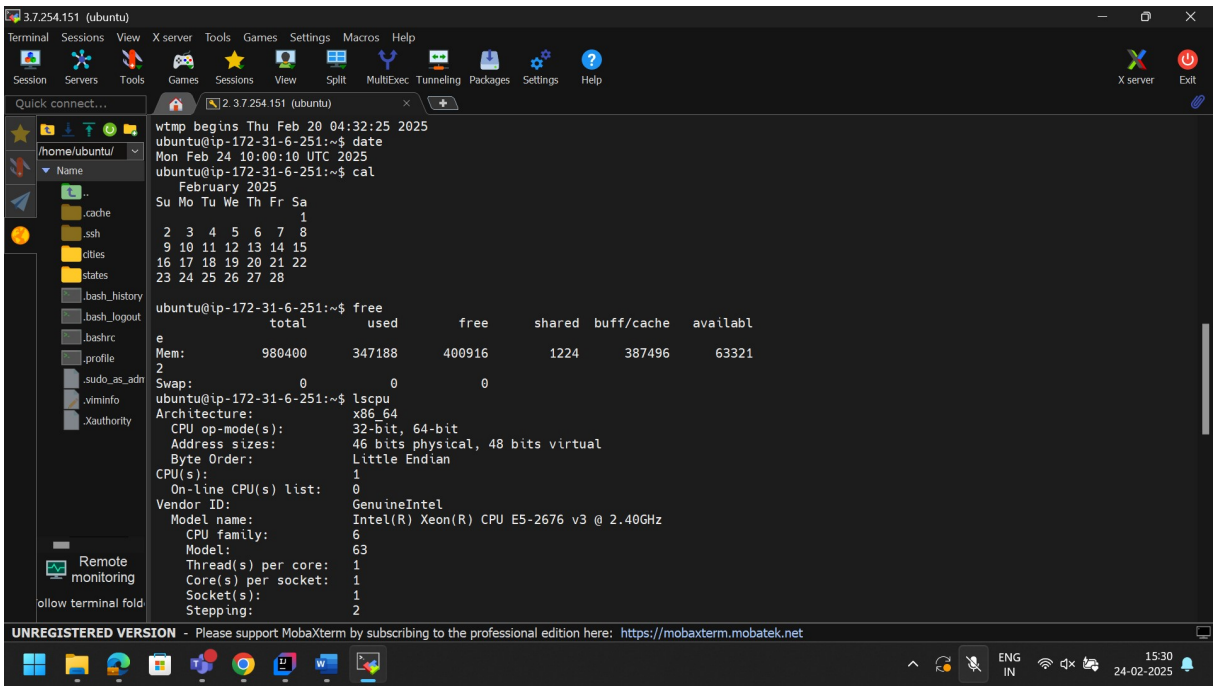


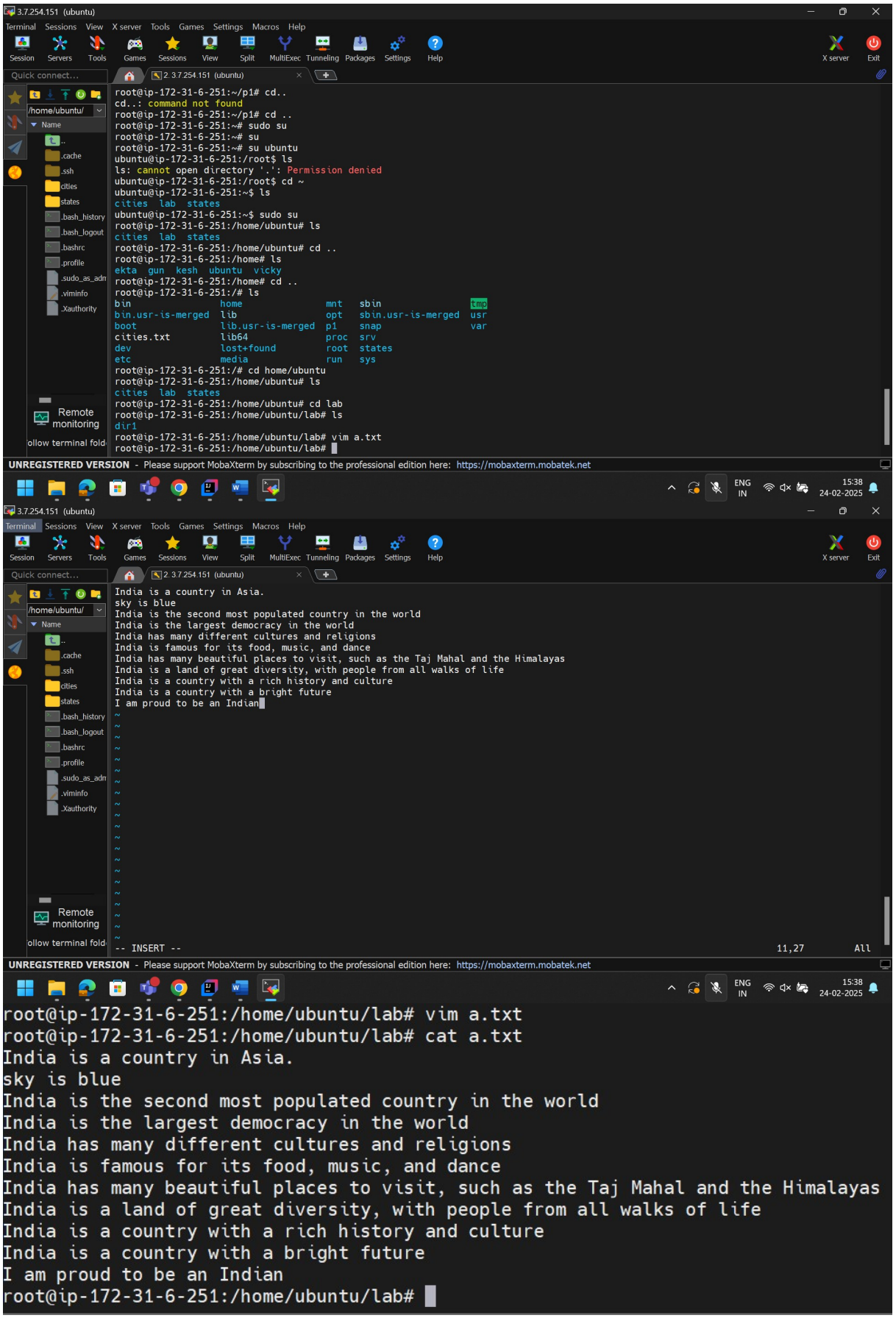
3. Create EC2 instance as demonstrated in the session



4. Practice linux command on Ubuntu machine








```
root@ip-172-31-6-251:/home/ubuntu/lab# vim a.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat a.txt
India is a country in Asia.
sky is blue
India is the second most populated country in the world
India is the largest democracy in the world
India has many different cultures and religions
India is famous for its food, music, and dance
India has many beautiful places to visit, such as the Taj Mahal and the Himalayas
India is a land of great diversity, with people from all walks of life
India is a country with a rich history and culture
India is a country with a bright future
I am proud to be an Indian
root@ip-172-31-6-251:/home/ubuntu/lab#
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# cp a.txt dir1/
root@ip-172-31-6-251:/home/ubuntu/lab# cd dir1
root@ip-172-31-6-251:/home/ubuntu/lab/dir1# ls
a.txt  dir2
root@ip-172-31-6-251:/home/ubuntu/lab/dir1#
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# mkdir cities
root@ip-172-31-6-251:/home/ubuntu/lab# cd cities/
root@ip-172-31-6-251:/home/ubuntu/lab/cities# touch delhi paris tokyo
root@ip-172-31-6-251:/home/ubuntu/lab/cities# ls
delhi  paris  tokyo
root@ip-172-31-6-251:/home/ubuntu/lab/cities# cd ..
root@ip-172-31-6-251:/home/ubuntu/lab# cp -r cities /temp
root@ip-172-31-6-251:/home/ubuntu/lab# ls
a.txt  cities  dir1
root@ip-172-31-6-251:/home/ubuntu/lab# cd ..
root@ip-172-31-6-251:/home/ubuntu# ls
cities  lab  states
root@ip-172-31-6-251:/home/ubuntu# cd ..
root@ip-172-31-6-251:/home# ls
ekta  gun  kesh  ubuntu  vicky
root@ip-172-31-6-251:/home# cd ..
root@ip-172-31-6-251:/# ls
bin               boot        dev  home  lib.usr-is-merged  lost+found  mnt  p1    root  sbin              snap  states  temp  usr
bin.usr-is-merged  cities.txt  etc  lib   lib64              media       opt  proc  run   sbin.usr-is-merged  srv   sys     tmp   var
root@ip-172-31-6-251:/# cd temp
root@ip-172-31-6-251:/temp# ls
delhi  paris  tokyo
root@ip-172-31-6-251:/temp#
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# date> mydate.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat mydate.txt
Mon Feb 24 10:13:17 UTC 2025
root@ip-172-31-6-251:/home/ubuntu/lab#
root@ip-172-31-6-251:/home/ubuntu/lab# cat demo.txt blabla 2> error.txt
root@ip-172-31-6-251:/home/ubuntu/lab# ls
a.txt  cities  dir1  error.txt  mydate.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat error.txt
cat: demo.txt: No such file or directory
cat: blabla: No such file or directory
root@ip-172-31-6-251:/home/ubuntu/lab#
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# cat demo.txt blabla 1> output.txt
cat: demo.txt: No such file or directory
cat: blabla: No such file or directory
root@ip-172-31-6-251:/home/ubuntu/lab# ls
a.txt  cities  dir1  error.txt  mydate.txt  output.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat output.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat a.txt blabla 1> output.txt
cat: blabla: No such file or directory
root@ip-172-31-6-251:/home/ubuntu/lab# vim blabla.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat a.txt blabla 1> output.txt
cat: blabla: No such file or directory
root@ip-172-31-6-251:/home/ubuntu/lab# cat a.txt blabla.txt 1> output.txt
root@ip-172-31-6-251:/home/ubuntu/lab# cat output.txt
India is a country in Asia.
sky is blue
India is the second most populated country in the world
India is the largest democracy in the world
India has many different cultures and religions
India is famous for its food, music, and dance
India has many beautiful places to visit, such as the Taj Mahal and the Himalayas
India is a land of great diversity, with people from all walks of life
India is a country with a rich history and culture
India is a country with a bright future
I am proud to be an Indian
blabla inside
root@ip-172-31-6-251:/home/ubuntu/lab#
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# ls
a.txt  blabla.txt  cities  dir1  error.txt  mydate.txt  output.txt
root@ip-172-31-6-251:/home/ubuntu/lab# du cities
4       cities
root@ip-172-31-6-251:/home/ubuntu/lab# wc -l a.txt
11 a.txt
root@ip-172-31-6-251:/home/ubuntu/lab# wc -w a.txt
97 a.txt
root@ip-172-31-6-251:/home/ubuntu/lab# wc -c a.txt
506 a.txt
root@ip-172-31-6-251:/home/ubuntu/lab# ls
a.txt  blabla.txt  cities  dir1  error.txt  mydate.txt  output.txt
root@ip-172-31-6-251:/home/ubuntu/lab# sort output.txt
I am proud to be an Indian
India has many beautiful places to visit, such as the Taj Mahal and the Himalayas
India has many different cultures and religions
India is a country in Asia.
India is a country with a bright future
India is a country with a rich history and culture
India is a land of great diversity, with people from all walks of life
India is famous for its food, music, and dance
India is the largest democracy in the world
India is the second most populated country in the world
blabla inside
sky is blue
root@ip-172-31-6-251:/home/ubuntu/lab# grep world a.txt
India is the second most populated country in the world
India is the largest democracy in the world
root@ip-172-31-6-251:/home/ubuntu/lab#
```

```
root@ip-172-31-6-251:/home/ubuntu/lab#
root@ip-172-31-6-251:/home/ubuntu/lab# systemctl list-unit-files
UNIT FILE                                  STATE           PRESET
proc-sys-fs-binfmt_misc.automount          static          -
-.mount                                    generated       -
boot-efi.mount                             generated       -
boot.mount                                 generated       -
dev-hugepages.mount                        static          -
dev-mqueue.mount                           static          -
proc-sys-fs-binfmt_misc.mount              disabled        disabled
snap-amazon\x2dssm\x2dagent-9881.mount     enabled         enabled
snap-core22-1722.mount                     enabled         enabled
snap-snapd-23545.mount                     enabled         enabled
sys-fs-fuse-connections.mount              static          -
sys-kernel-config.mount                    static          -
sys-kernel-debug.mount                     static          -
sys-kernel-tracing.mount                   static          -
acpid.path                                 enabled         enabled
apport-autoreport.path                     enabled         enabled
systemd-ask-password-console.path          static          -
systemd-ask-password-plymouth.path         static          -
systemd-ask-password-wall.path             static          -
tpm-udev.path                              enabled         enabled
session-2.scope                            transient       -
session-4.scope                            transient       -
acpid.service                              disabled        enabled
apache-htcacheclean.service                disabled        enabled
apache-htcacheclean@.service               disabled        enabled
apache2.service                            enabled         enabled
apache2@.service                           disabled        enabled
apparmor.service                           enabled         enabled
apport-autoreport.service                  static          -
apport-coredump-hook@.service              static          -
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
     Active: active (running) since Mon 2025-02-24 09:54:07 UTC; 26min ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 506 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 529 (apache2)
      Tasks: 55 (limit: 1130)
     Memory: 7.8M (peak: 8.0M)
        CPU: 130ms
     CGroup: /system.slice/apache2.service
             ├─529 /usr/sbin/apache2 -k start
             ├─530 /usr/sbin/apache2 -k start
             └─531 /usr/sbin/apache2 -k start

Feb 24 09:54:06 ip-172-31-6-251 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Feb 24 09:54:07 ip-172-31-6-251 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-6-251:/home/ubuntu/lab# systemctl start apache2
root@ip-172-31-6-251:/home/ubuntu/lab# service --status-all
 [ + ]  acpid
 [ - ]  apache-htcacheclean
 [ + ]  apache2
 [ + ]  apparmor
 [ + ]  apport
 [ + ]  chrony
 [ - ]  console-setup.sh
 [ + ]  cron
 [ - ]  cryptdisks
 [ - ]  cryptdisks-early
 [ + ]  dbus
 [ - ]  grub-common
```

```
root@ip-172-31-6-251:/home/ubuntu/lab# ps
    PID TTY          TIME CMD
   1545 pts/3    00:00:00 sudo
   1546 pts/3    00:00:00 su
   1547 pts/3    00:00:00 bash
   1867 pts/3    00:00:00 ps
root@ip-172-31-6-251:/home/ubuntu/lab# ps -e
    PID TTY          TIME CMD
      1 ?        00:00:04 systemd
      2 ?        00:00:00 kthreadd
```

```
root@ip-172-31-6-251:/home# ls
ekta  gun  kesh  ubuntu  vicky
root@ip-172-31-6-251:/home#
```