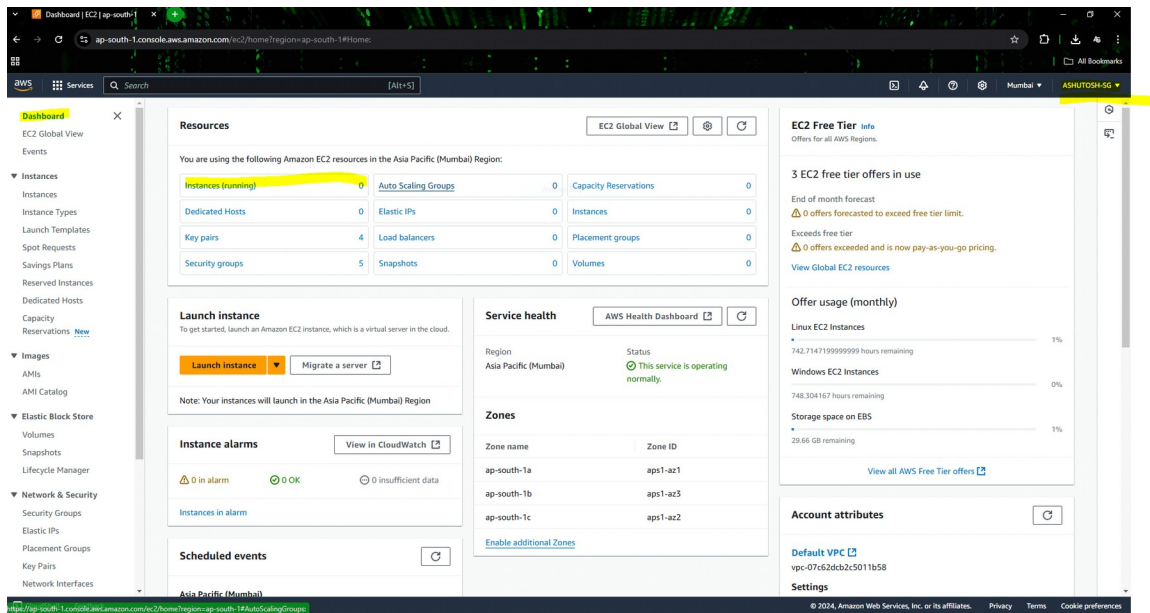


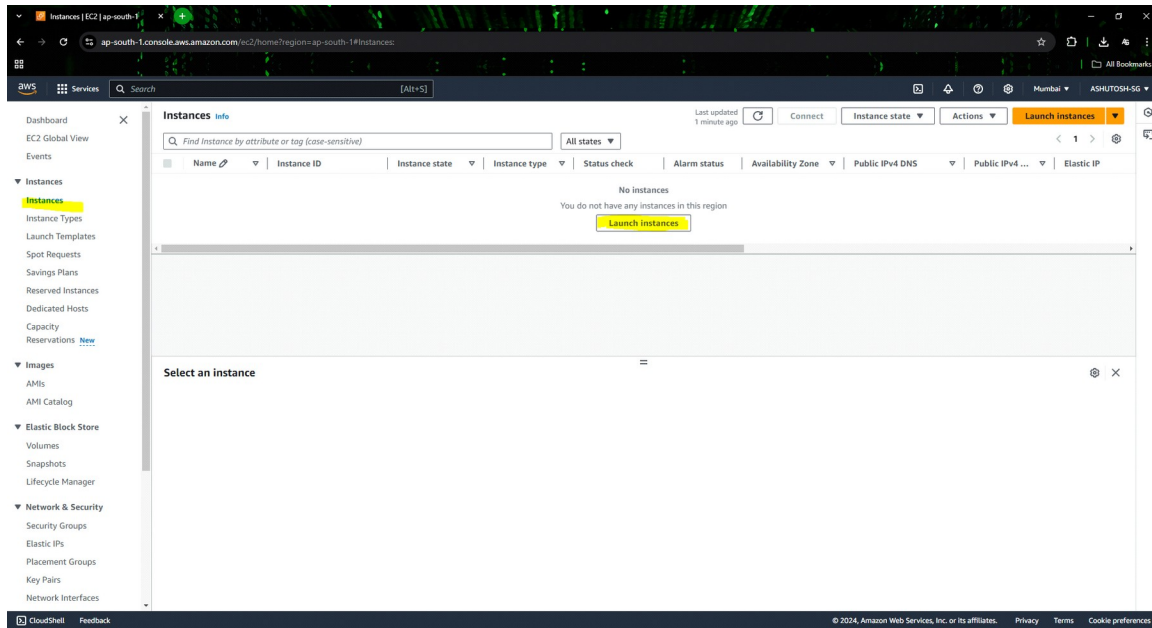
Name : Ashutosh Gangurde
Prn :240840127031

Q1 create an Amzon EC2 Instance?

Step 1
go to amzone dashboard



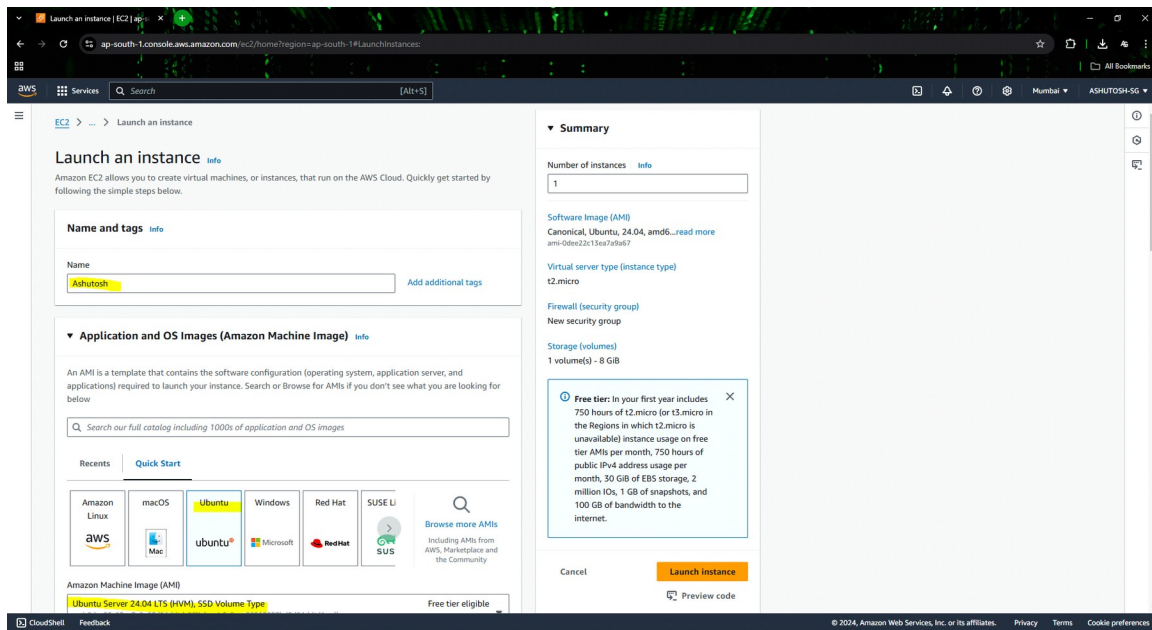
step 2
click on instance and launch instance



step 3

add Name and tags : Ashutosh

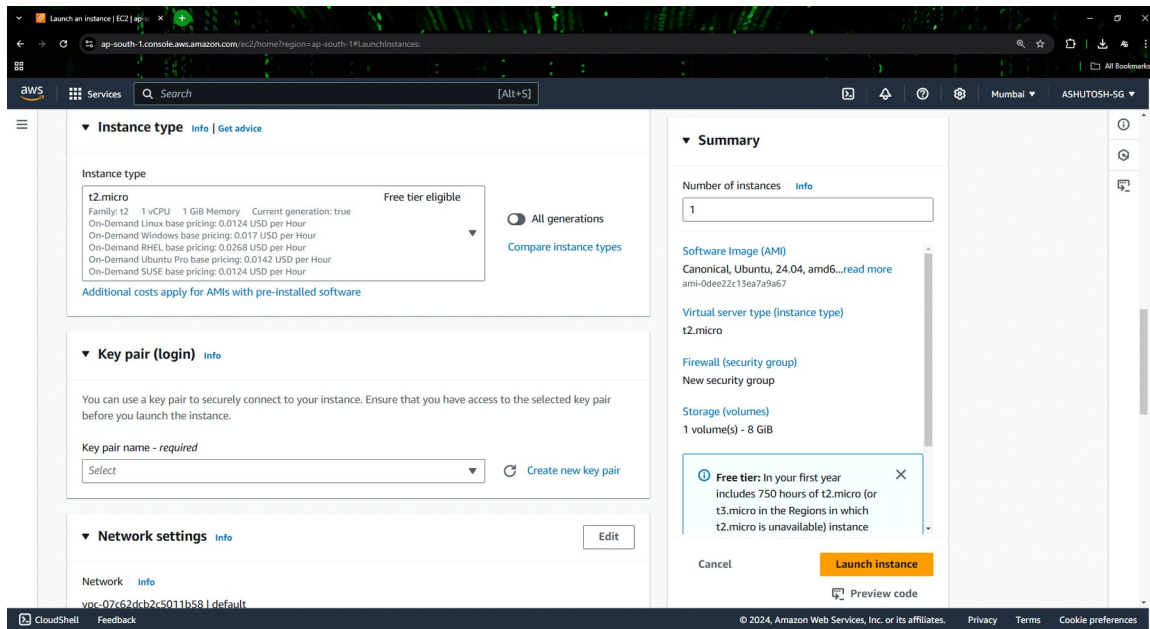
add Amazon Machine Image (AMI) : ubuntu server 24.04



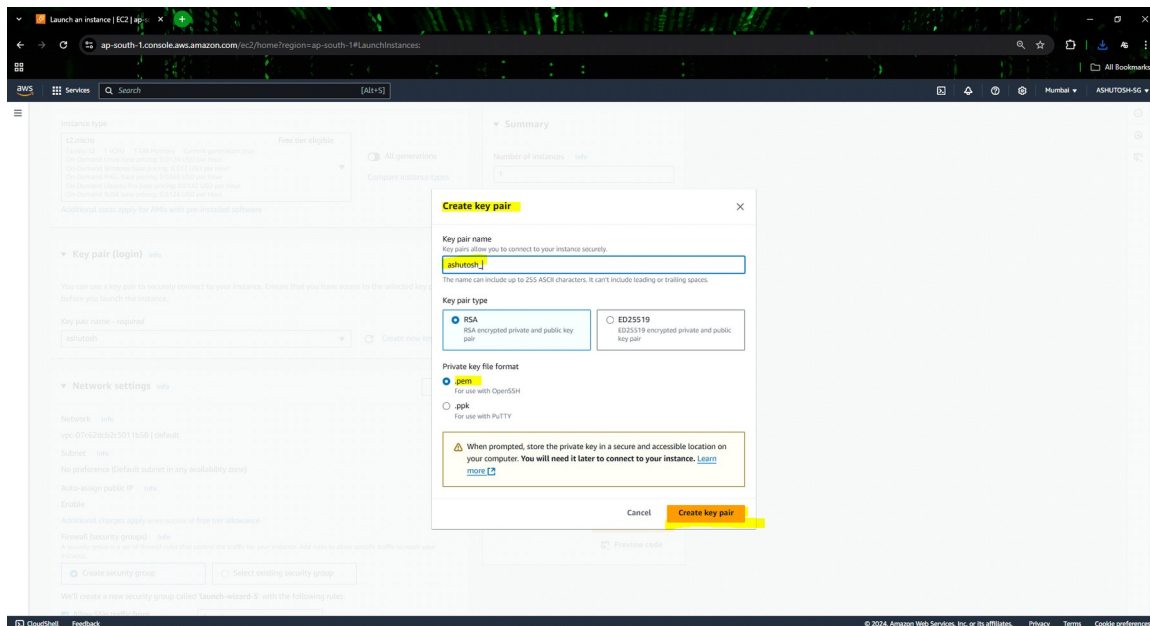
step 4

select instance type as : t2.micro

for the free tire



step 5
download pem file
for use with open ssh

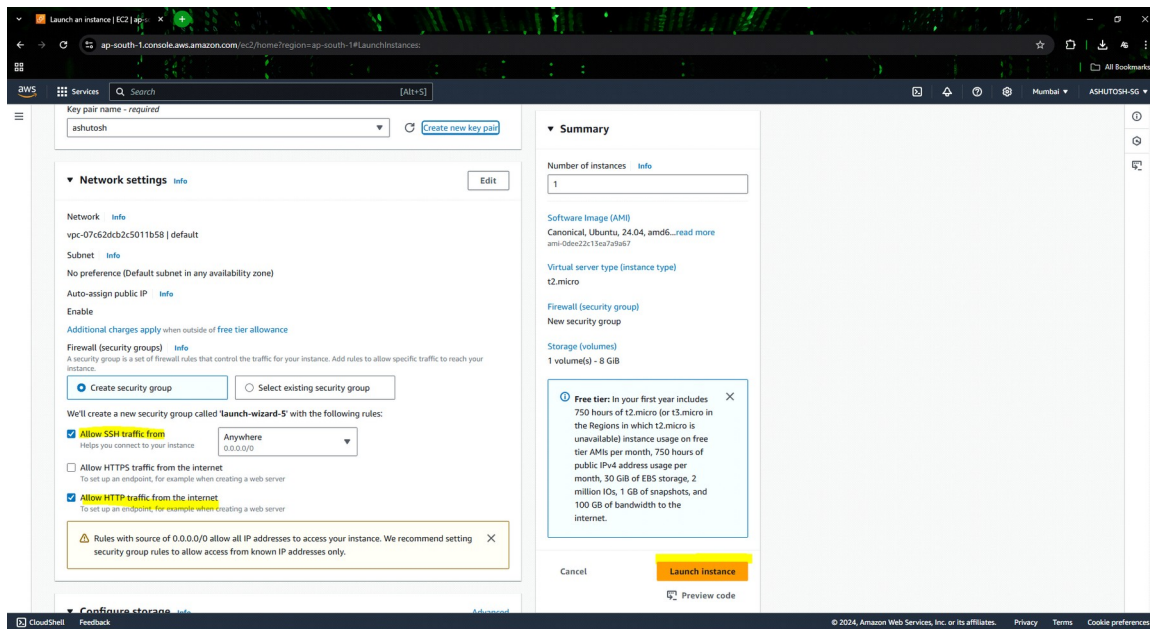


step 6

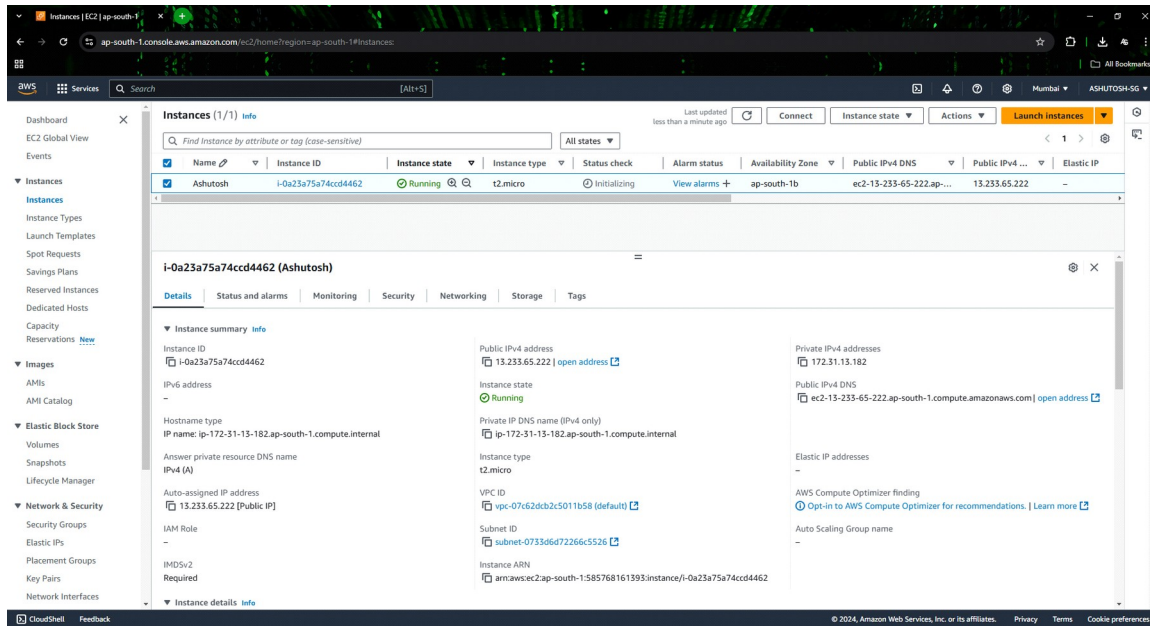
now click on allow ssh traffic from anywhere

allow http traffic from the internet

final click on the **launch instance**

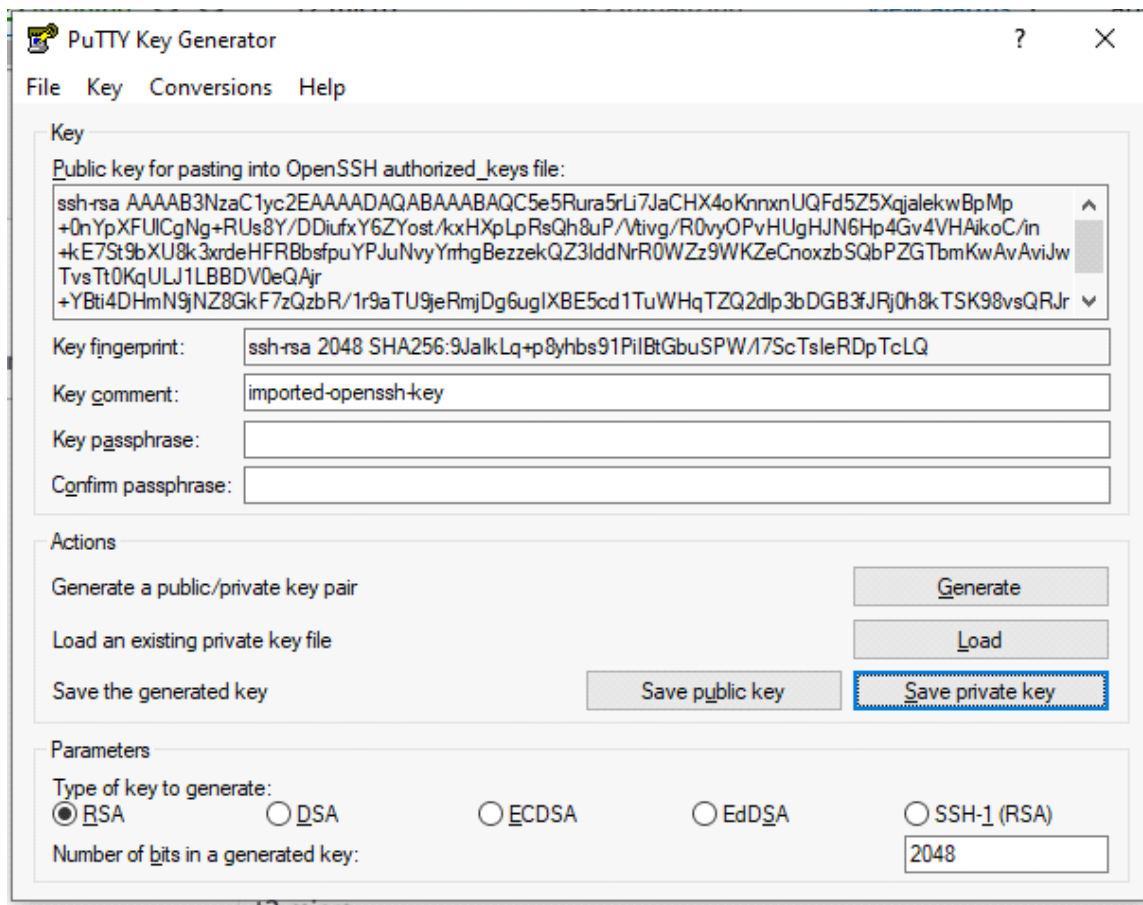


Final Dashboard screenshot



Q2 -----
create a python programme to print PRN ?

step 1
convert the downloded pem file to the ppk to connect with putty



step 2

now using pkt connect to the EC2 Instance 172-31-13-182


```
ubuntu@ip-172-31-13-182: ~  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-13-182:~$
```

step 3

update the system
then install python

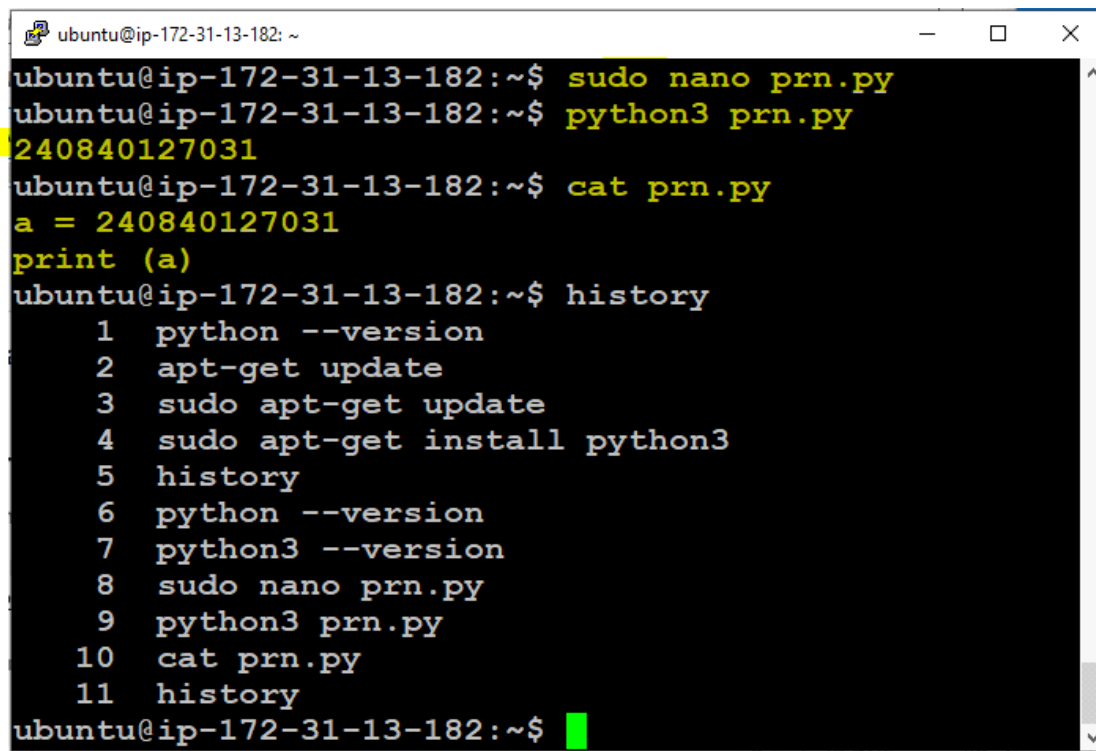
```
ubuntu@ip-172-31-13-182: ~  
Get:53 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Compone  
nts [212 B]  
Get:54 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f M  
etadata [356 B]  
Fetched 30.7 MB in 13s (2397 kB/s)  
Reading package lists... Done  
ubuntu@ip-172-31-13-182:~$ sudo apt-get install python3  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
python3 is already the newest version (3.12.3-0ubuntu2).  
python3 set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 41 not upgraded.  
ubuntu@ip-172-31-13-182:~$ history  
1  python --version  
2  apt-get update  
3  sudo apt-get update  
4  sudo apt-get install python3  
5  history  
ubuntu@ip-172-31-13-182:~$ python --version  
Command 'python' not found, did you mean:  
  command 'python3' from deb python3  
  command 'python' from deb python-is-python3  
ubuntu@ip-172-31-13-182:~$ python3 --version  
Python 3.12.3  
ubuntu@ip-172-31-13-182:~$
```

step 4

check the python version

write your python code

run it

A terminal window titled 'ubuntu@ip-172-31-13-182: ~' with standard window controls. The terminal shows a series of commands and their outputs. The first command is 'sudo nano prn.py', followed by 'python3 prn.py' which outputs '240840127031'. Then 'cat prn.py' is run, showing the code 'a = 240840127031' and 'print (a)'. Finally, 'history' is run, displaying a list of 11 commands. The prompt 'ubuntu@ip-172-31-13-182:~\$' is followed by a green cursor.

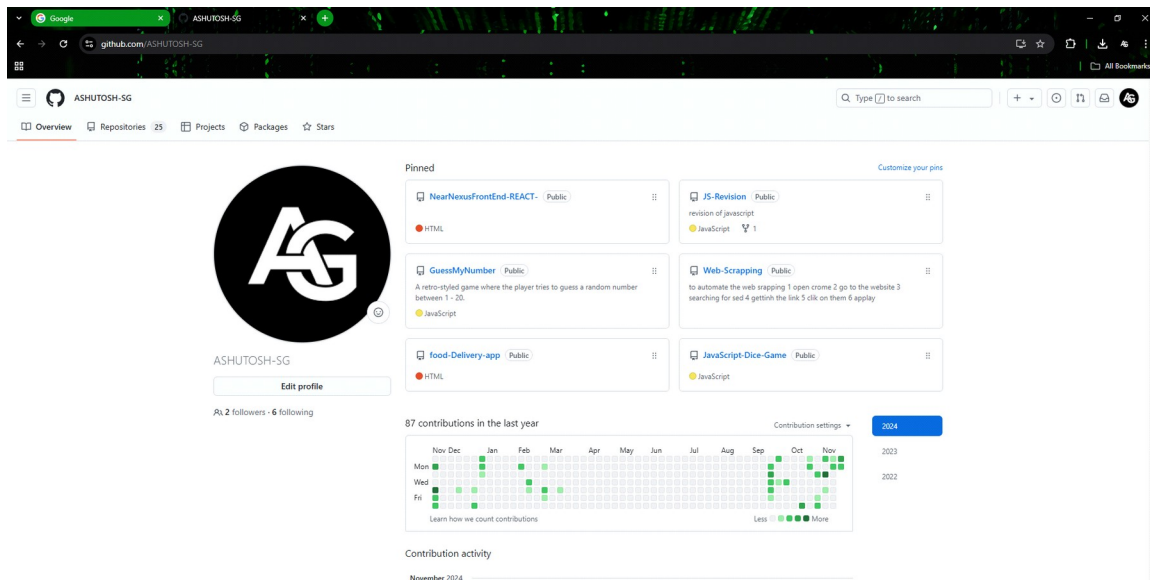
```
ubuntu@ip-172-31-13-182:~$ sudo nano prn.py
ubuntu@ip-172-31-13-182:~$ python3 prn.py
240840127031
ubuntu@ip-172-31-13-182:~$ cat prn.py
a = 240840127031
print (a)
ubuntu@ip-172-31-13-182:~$ history
 1  python --version
 2  apt-get update
 3  sudo apt-get update
 4  sudo apt-get install python3
 5  history
 6  python --version
 7  python3 --version
 8  sudo nano prn.py
 9  python3 prn.py
10  cat prn.py
11  history
ubuntu@ip-172-31-13-182:~$
```

Q3 -----

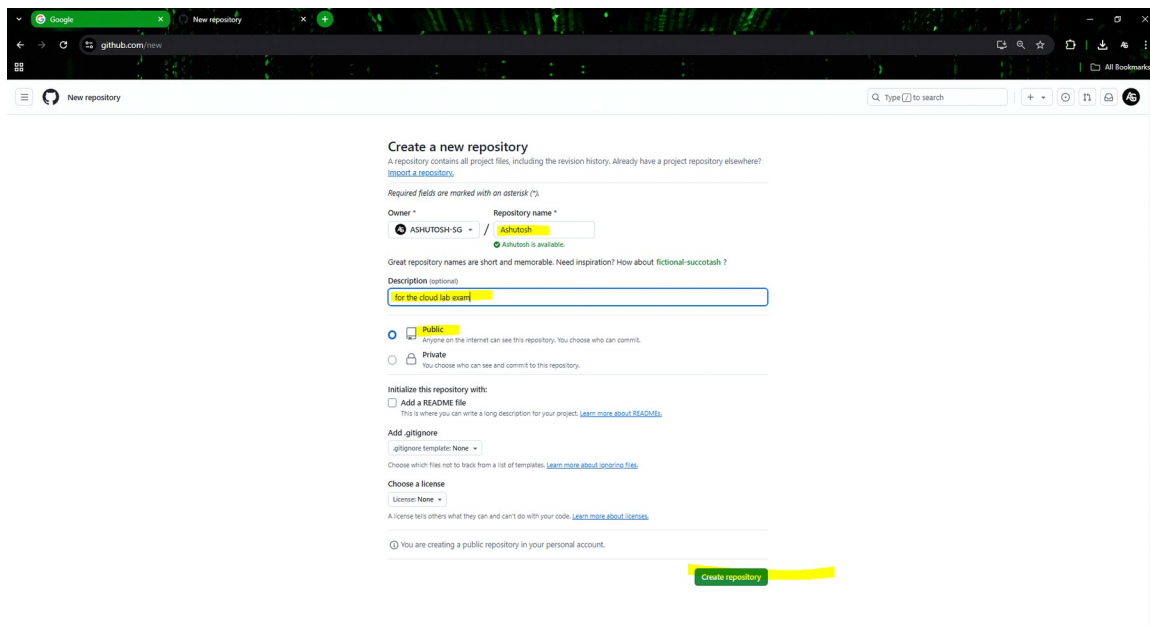
create a repo ?

step 1

login to your git hub account



step 2
go to add repo
write name
make it public
create repository



final Link
<https://github.com/ASHUTOSH-SG/Ashutosh>

Q4-----

Push the code

step 1

now go the python code file directory
initialize the git

```
ubuntu@ip-172-31-13-182: ~$ ls
prn.py
ubuntu@ip-172-31-13-182:~$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/.git/
ubuntu@ip-172-31-13-182:~$ git add prn.py
ubuntu@ip-172-31-13-182:~$ git commit -m "prn file created"
[master (root-commit) aa684df] prn file created
Committer: Ubuntu <ubuntu@ip-172-31-13-182.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

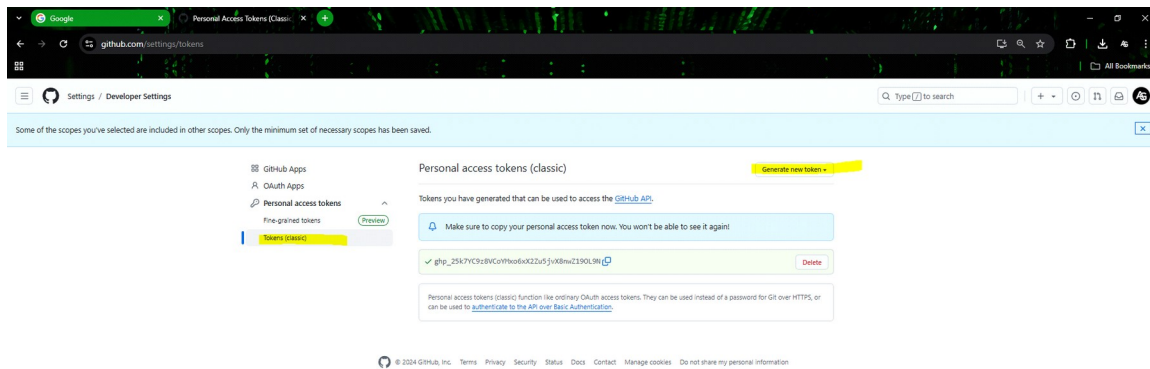
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 2 insertions(+)
create mode 100644 prn.py
ubuntu@ip-172-31-13-182:~$ git branch -m main
ubuntu@ip-172-31-13-182:~$ git remote add origin https://github.com/ASHUTOSH-SG/Ashutosh
ubuntu@ip-172-31-13-182:~$ git push -u origin main
Username for 'https://github.com': ASHUTOSH-SG
Password for 'https://ASHUTOSH-SG@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-
repositories#cloning-with-https-urls for information on currently recommended modes of authen-
tication.
```

Step 2

for the authentication of the git hub add
access token in it



step 4

now push the code
get login

```
ubuntu@ip-172-31-13-182: ~  
ubuntu@ip-172-31-13-182:~$ git remote add origin https://github.com/ASHUTOSH-SG/Ashutosh  
ubuntu@ip-172-31-13-182:~$ git push -u origin main  
Username for 'https://github.com': ASHUTOSH-SG  
Password for 'https://ASHUTOSH-SG@github.com':  
remote: Support for password authentication was removed on August 13, 2021.  
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentication.  
fatal: Authentication failed for 'https://github.com/ASHUTOSH-SG/Ashutosh/'  
ubuntu@ip-172-31-13-182:~$ git push -u origin main  
Username for 'https://github.com': ASHUTOSH-SG  
Password for 'https://ASHUTOSH-SG@github.com':  
remote: Support for password authentication was removed on August 13, 2021.  
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentication.  
fatal: Authentication failed for 'https://github.com/ASHUTOSH-SG/Ashutosh/'  
ubuntu@ip-172-31-13-182:~$ git push -u origin main  
Username for 'https://github.com': ASHUTOSH-SG  
Password for 'https://ASHUTOSH-SG@github.com':  
Enumerating objects: 3, done.  
Counting objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 259 bytes | 259.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/ASHUTOSH-SG/Ashutosh  
* [new branch]      main -> main  
branch 'main' set up to track 'origin/main'.  
ubuntu@ip-172-31-13-182:~$
```

final output

GitHub - ASHUTOSH-SG/Ashur

https://github.com/ASHUTOSH-SG/Ashutosh

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main1 Branch0 Tags

Go to fileCode

Ubuntu pm file createdas04Mf · 5 minutes ago1 Commit

pm.pypm file created5 minutes ago

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