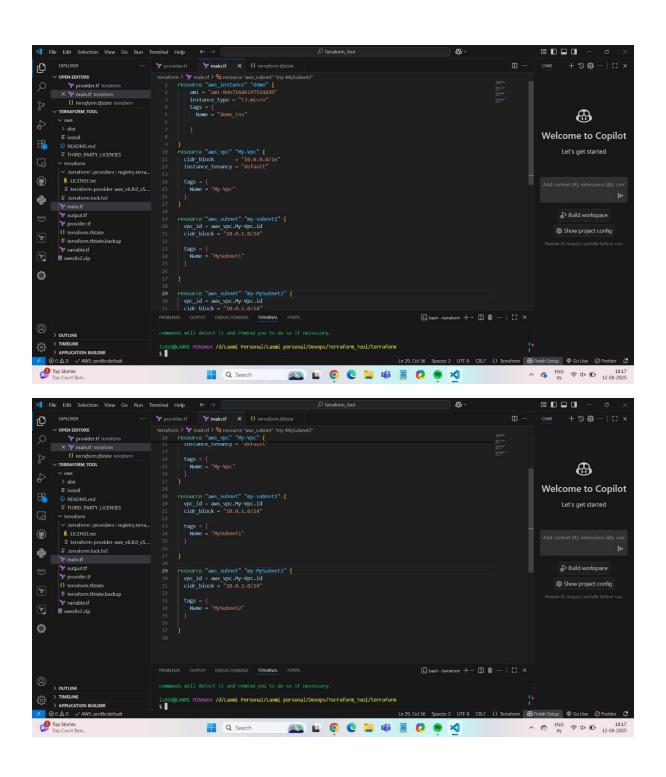
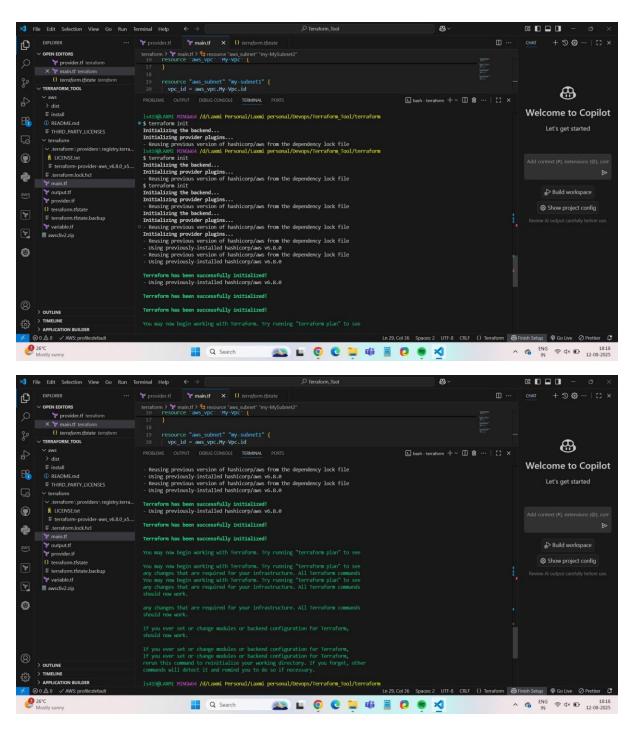
Name:- Laxmi Swami

Topic :- Multiple Resources Created

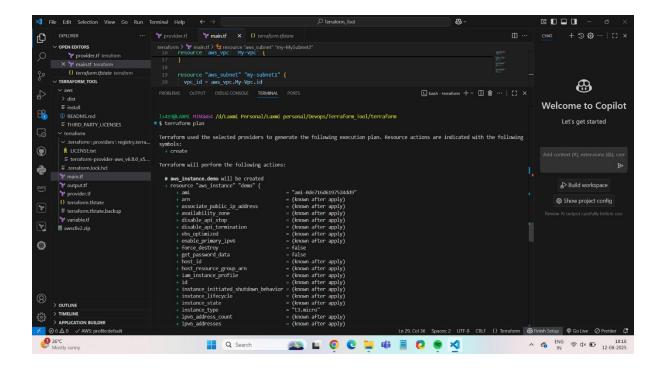
```
TASK: - Create one VPC and 2 subnet & one instance in the same main.tf file
STEP 1: Write below script to create vpc and subnet resource "aws vpc"
"My-Vpc" { cidr_block = "10.0.0.0/16" instance_tenancy = "default" tags
= {
Name = "My-Vpc"
     }
}
resource "aws_vpc" "my-subnet1" {
vpc id = aws vpc. My-Vpc.id
cidr_block = "10.0.1.0/24"
                             tags
= {
    Name = "my-subnet1"
          }
}
resource "aws_vpc" "my-subnet2" {
vpc_id = aws_vpc. My-Vpc.id
cidr block = "10.0.2.0/24"
                             tags
= {
    Name = "my-subnet2"
          }
}
```



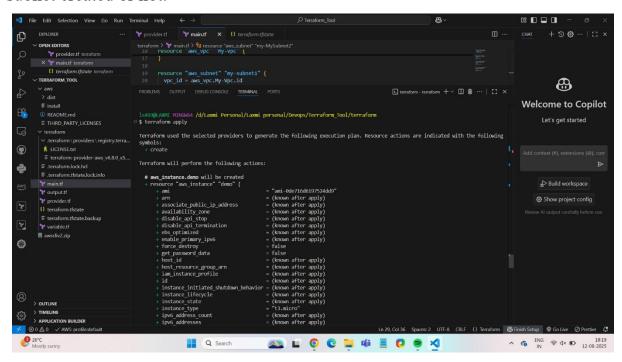
STEP 2: Now fetch **terraform init** command.

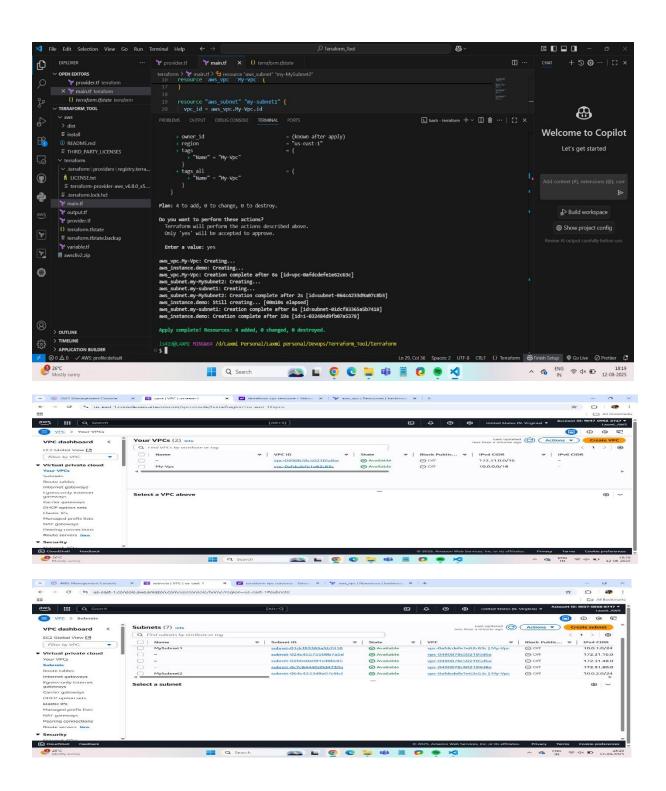


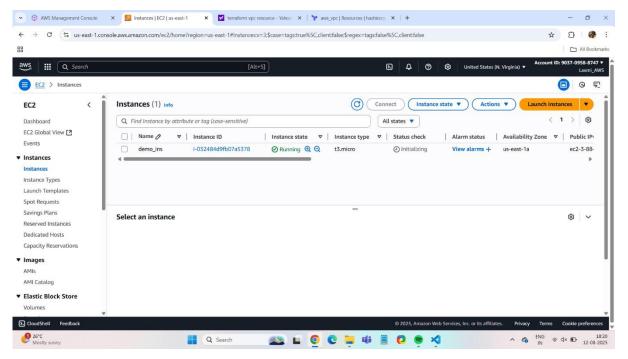
STEP 3:- Now fetch command terraform plan.



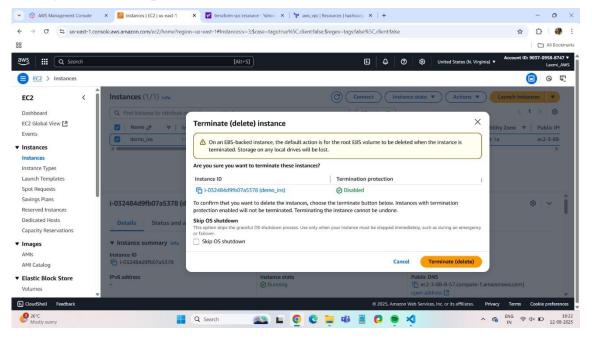
STEP 4: Now fetch command **terraform apply** and chech vpc instance and 2 subnet created or not.

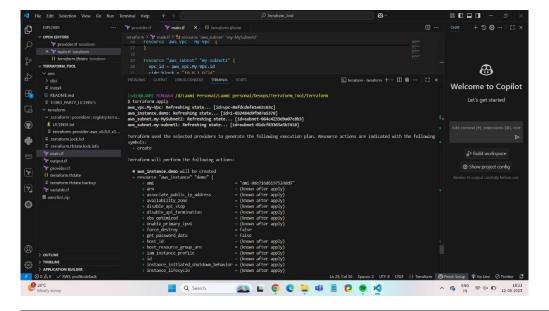


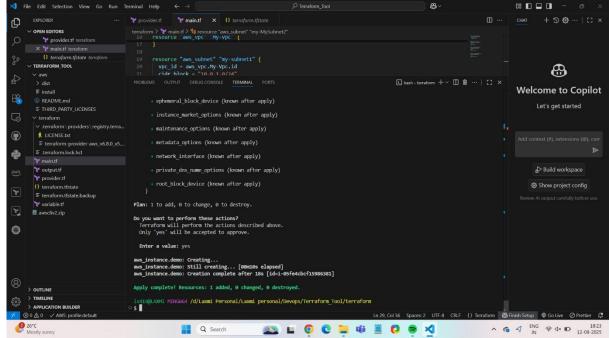




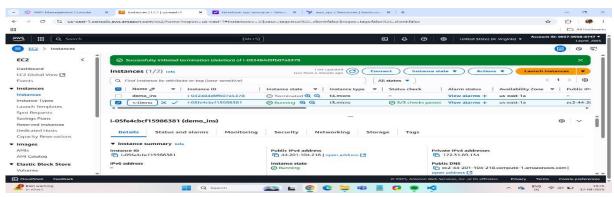
NOTE: If I terminate the instance manually and again fetch command terraform apply then what will happen? => It will create a new instance and 1 added message will be display.

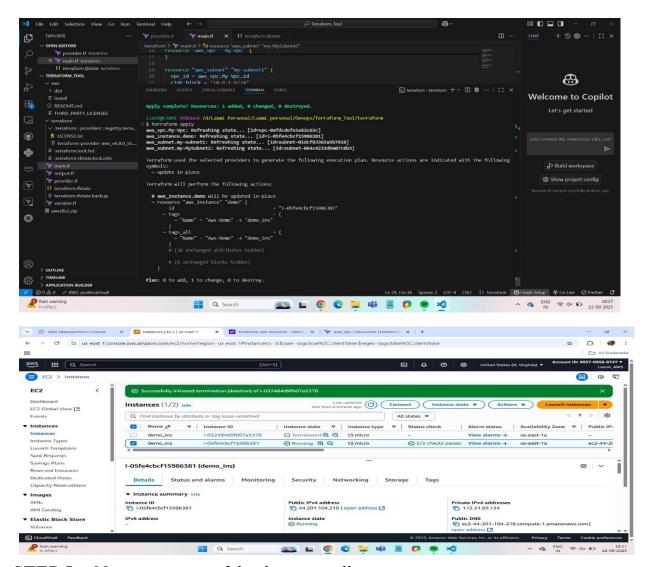




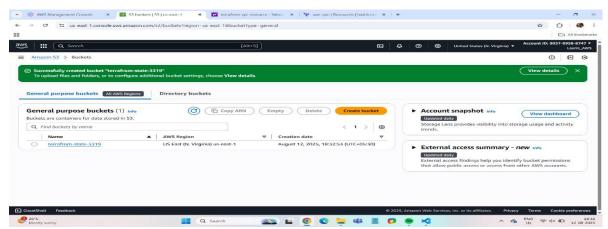


NOTE: If I change the instance name and fetch the command terraform apply then what will happen? => Here the instance name will be changed again and will replace the new name as name present in state.tf file.





STEP 5 :- Now create one s3 bucket manually.

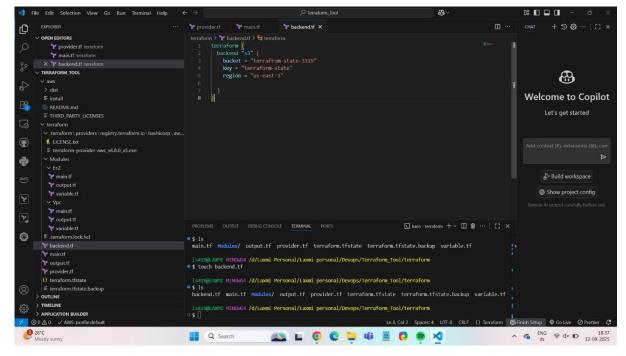


STEP 6:- Now create one backend.tf file and write below script in it.

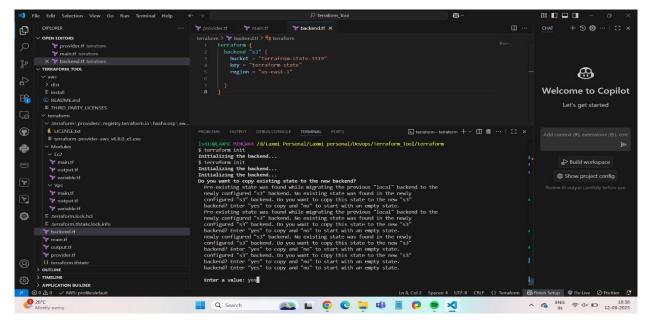
terraform { backend

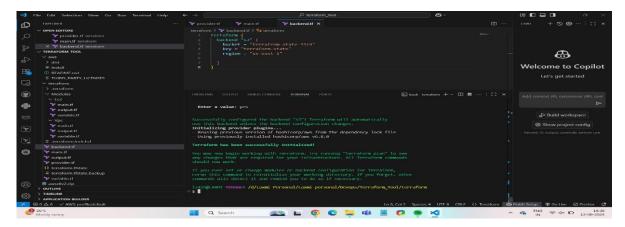
- = "s3" { bucket
- = "terraform-

```
state3319" key
= "terraform-state"
region = "us-east-1"
}
```

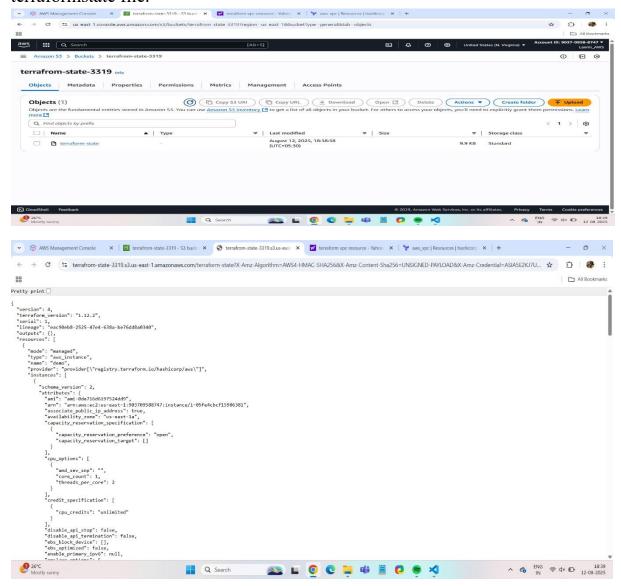


STEP 7: Now again fetch the command **terraform init** as we have made some changes by creating s3 bucket and backend.tf

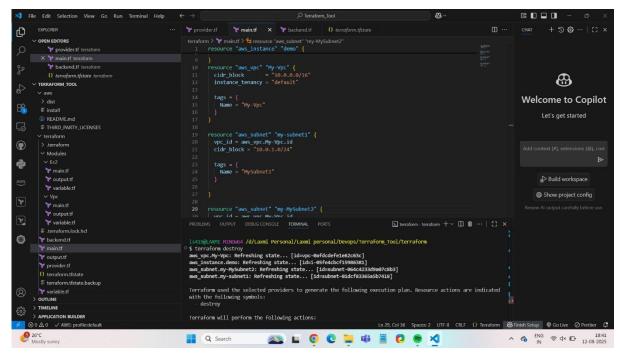




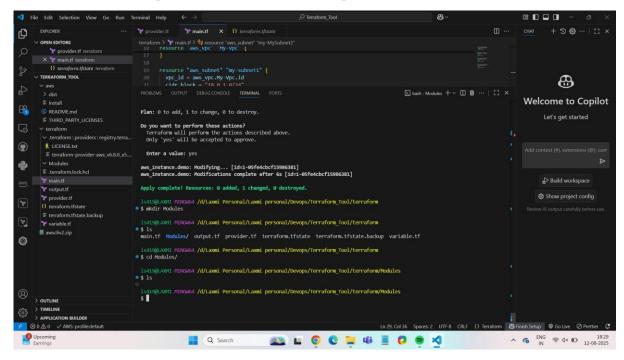
STEP 8: Now terraform-state folder will be automatically gets created inside s3 bucket and all the data inside state file will be moved to s3 bucket terraformstate file.

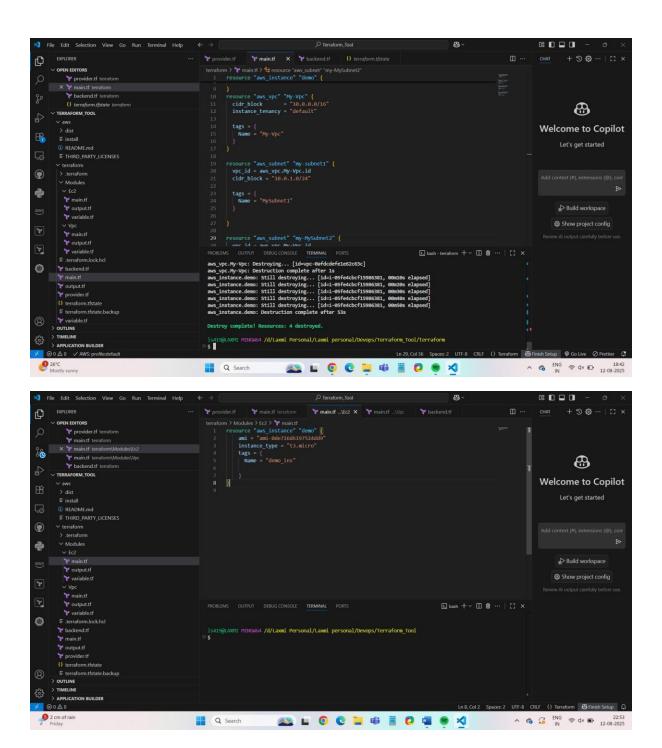


STEP 9: Now fetch terraform destroy command to delete the entire work.



STEP 10 :- Now create module folder inside that create two more folder name ec2 and vpc. Also create 3 files name main.tf variable.tf output.tf inside each ec2 and vpc folder. Copy paste all the data from main.tf instance data to ec2 main.tf folder and vpc data from main.tf to vpc main.tf folder.





STEP 11: Now in main.tf write below script

