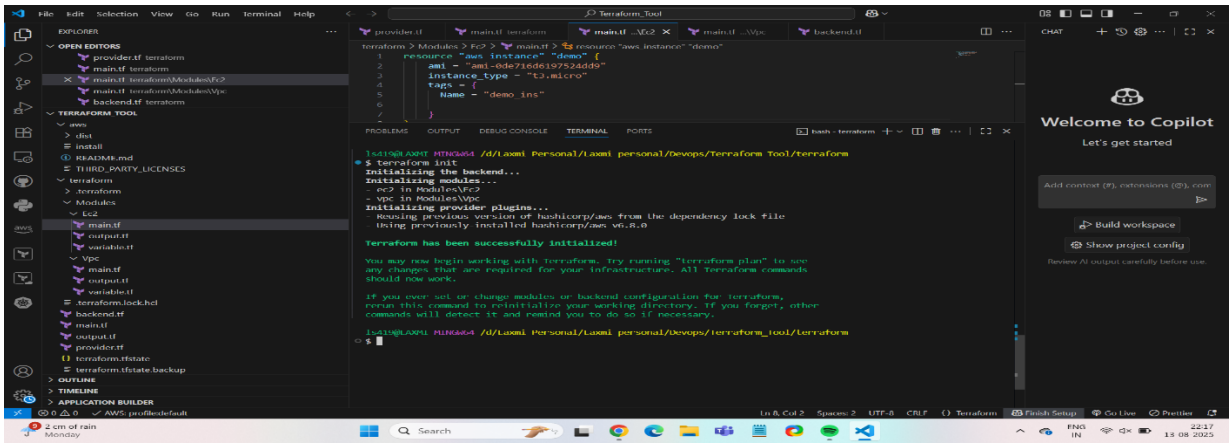
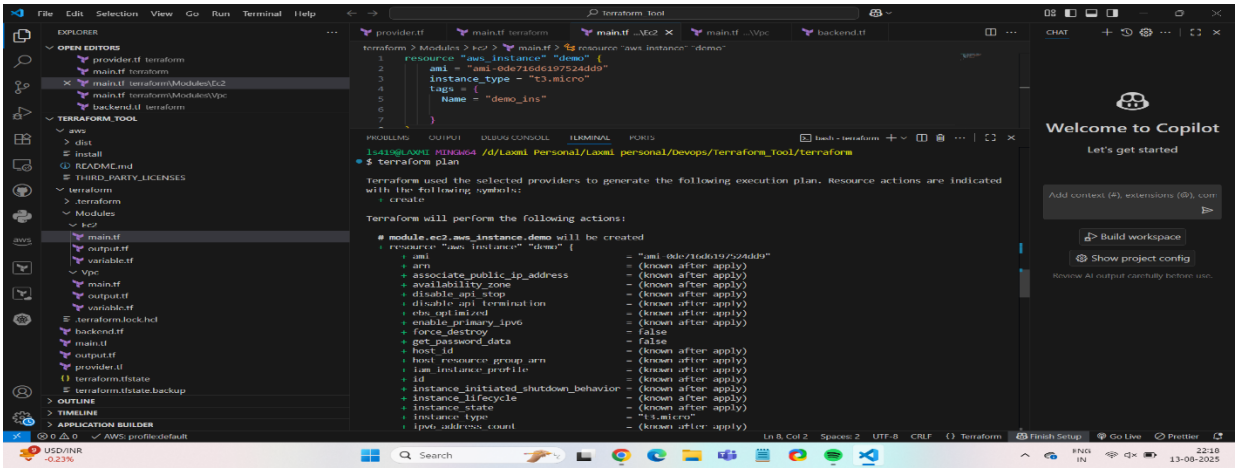
Name :- Laxmi Swami

Topic :- Terraform Variables

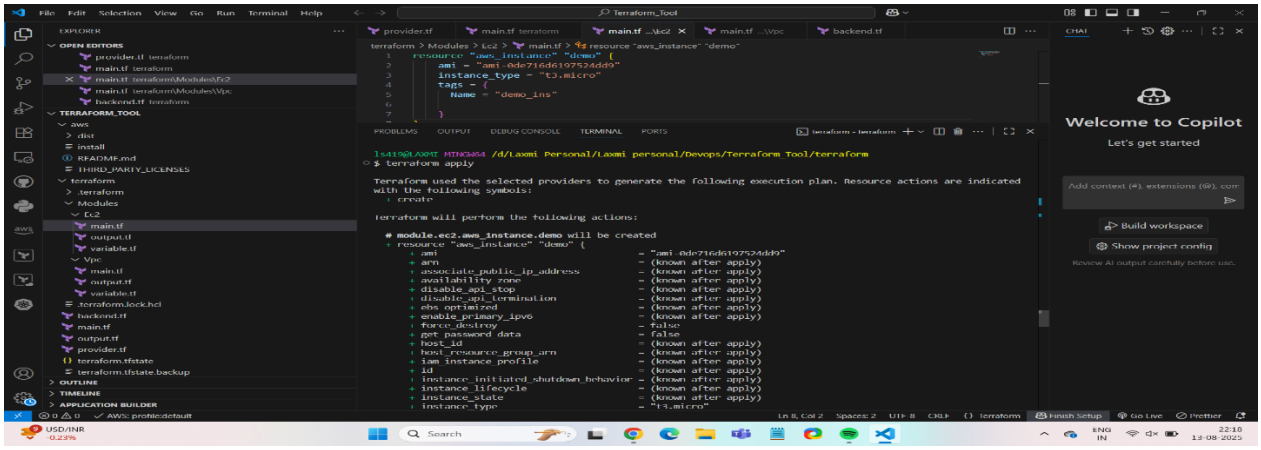
STEP 1 :- First fetch **terraform init** command as we have destroy everything in last task.



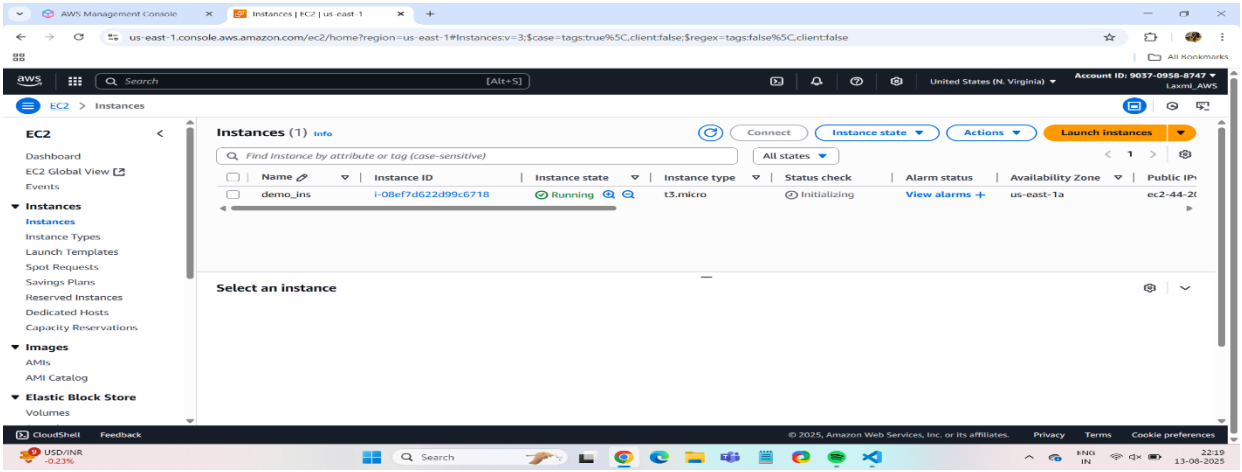
STEP 2 :- Now fetch the command **terraform plan**.

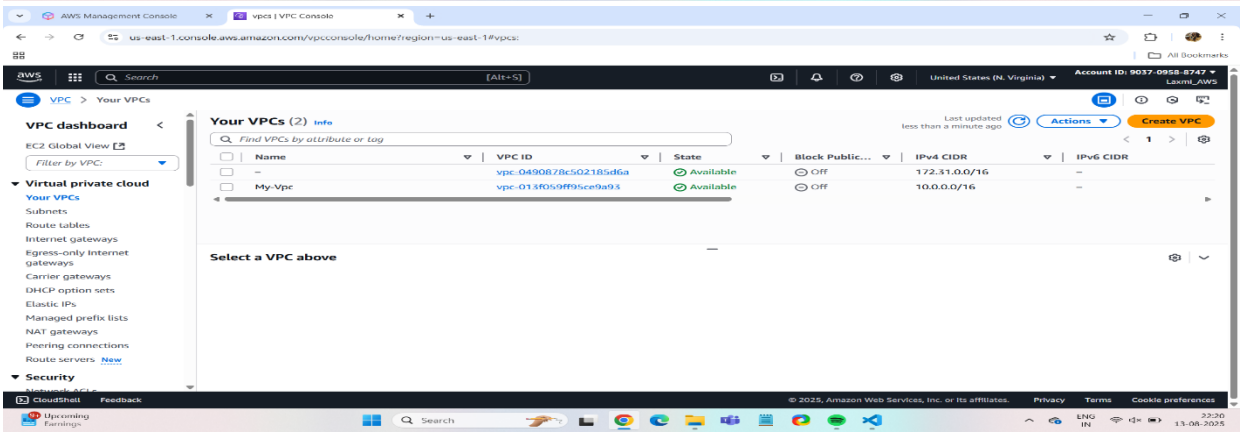


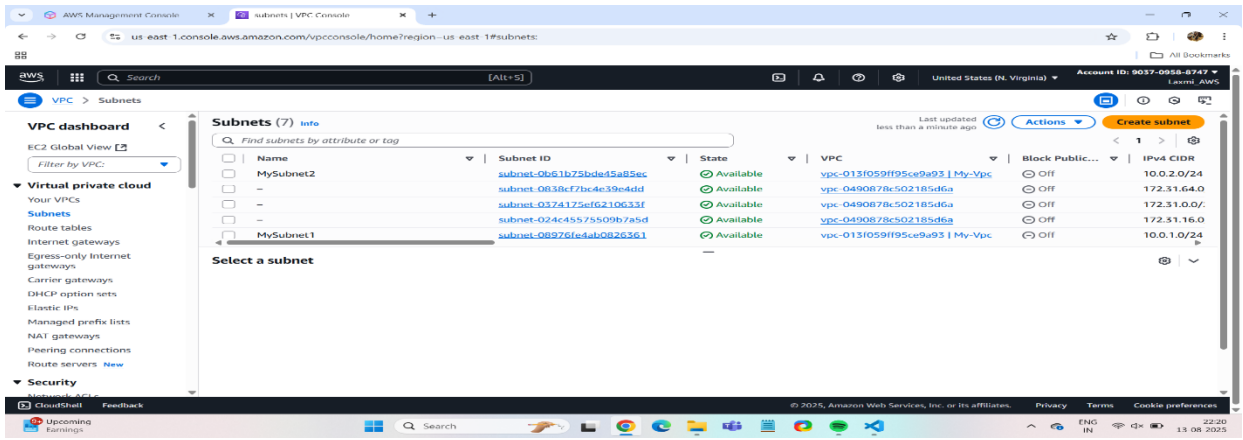
STEP 3 :- Now fetch the command **terraform apply**.



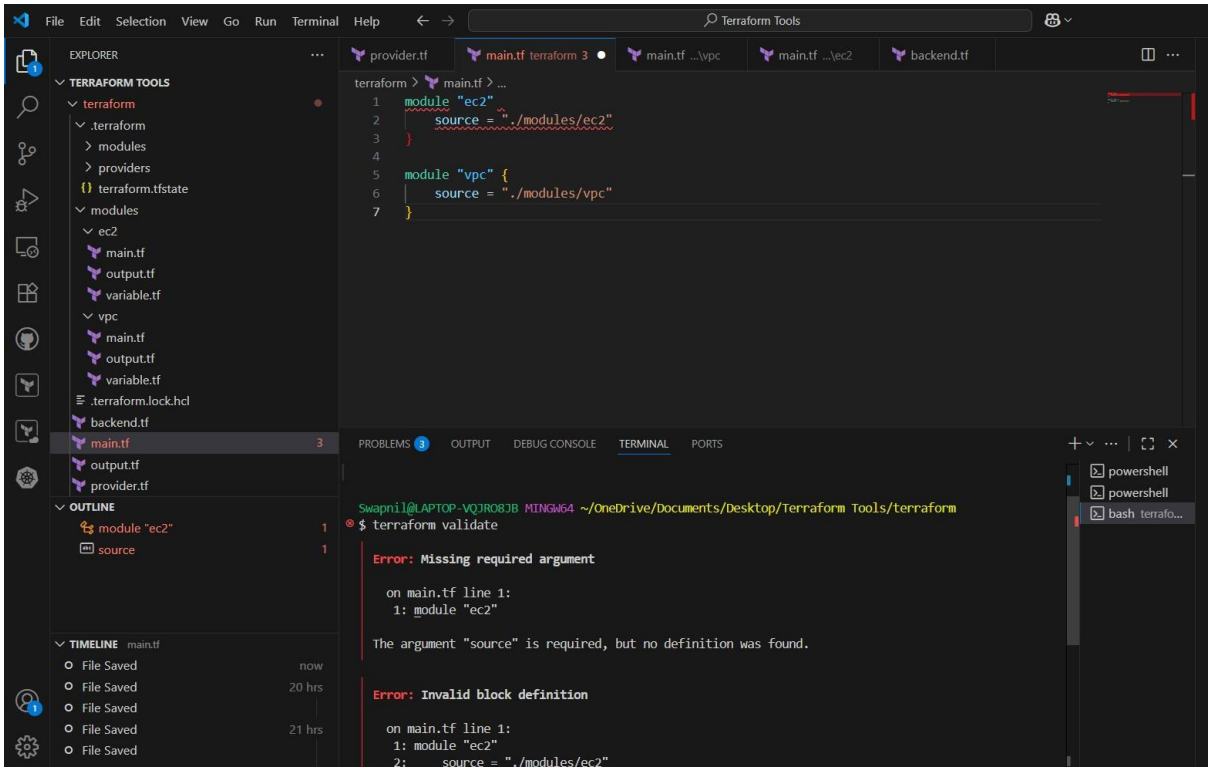
STEP 4 :- Now created instance , vpc, subnet



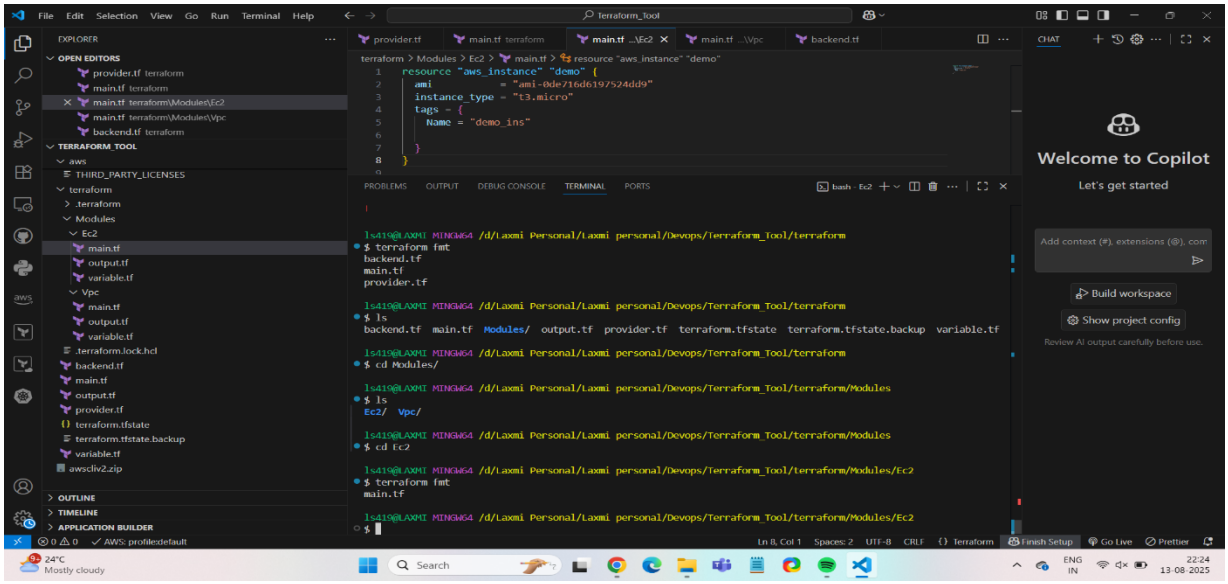




STEP 5 :- If we delete something in main.tf and fetch **terraform validate**. It will show where is error which line, column and also give a suggestion how to solve this error.



STEP 6 :- If our format is not as per standard and we fetch **terraform fmt** command we will get the required format automatically.



STEP 7 :- For variable go to ec2 folder then main.tf and we will change the script as below **resource “aws_instance” “sample” {**

ami = “ami-ID”

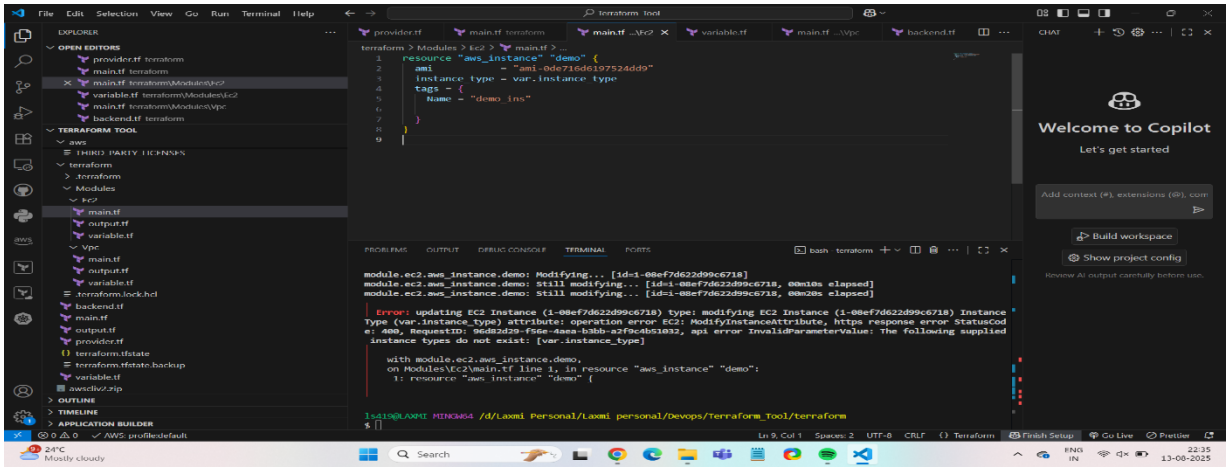
instance_type = “var.instance_type”

tags = {

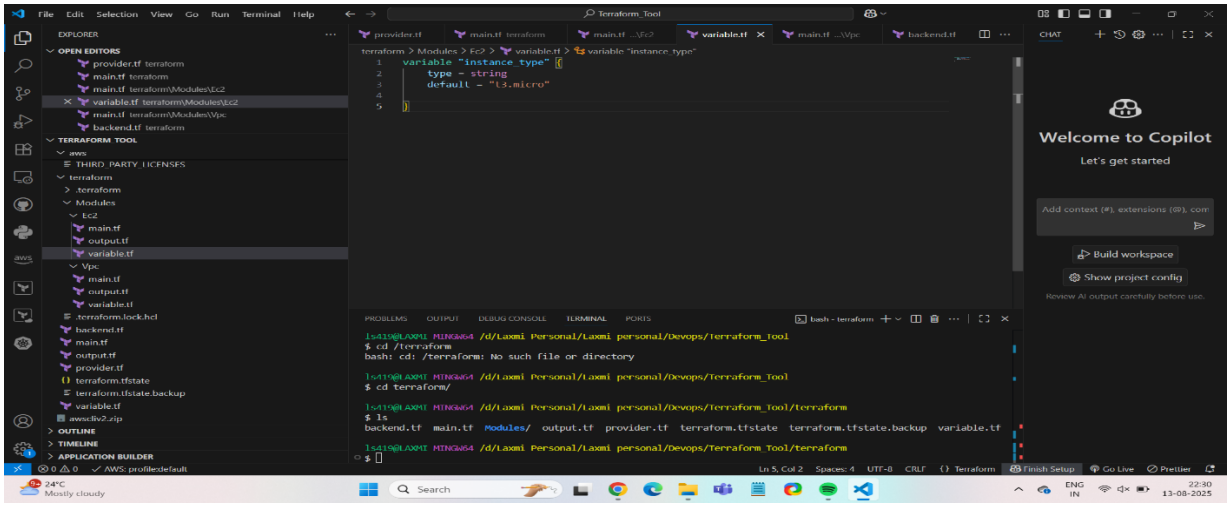
Name = “Sample-Instance”

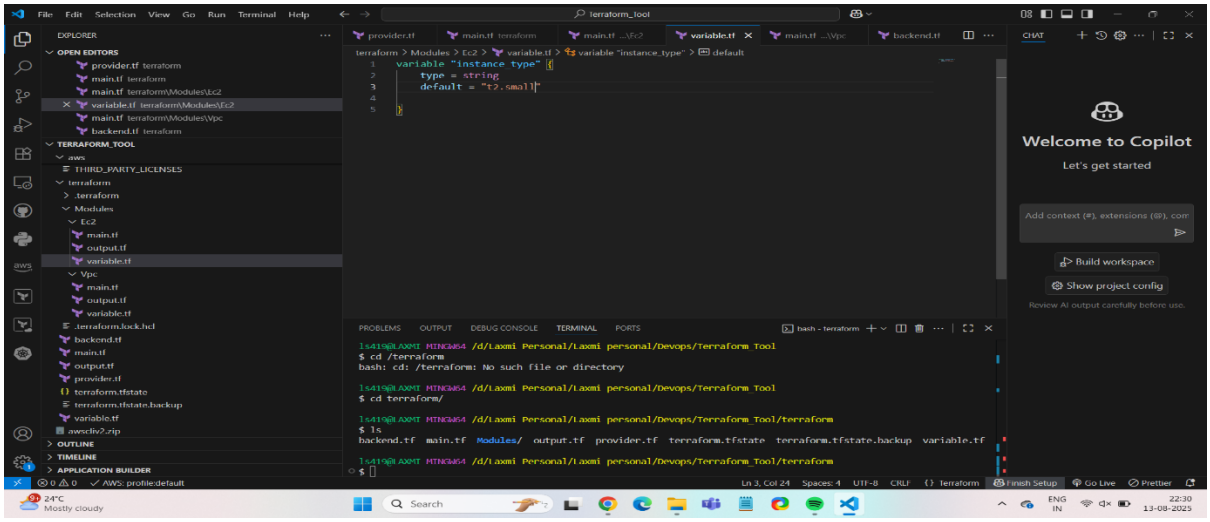
}

}

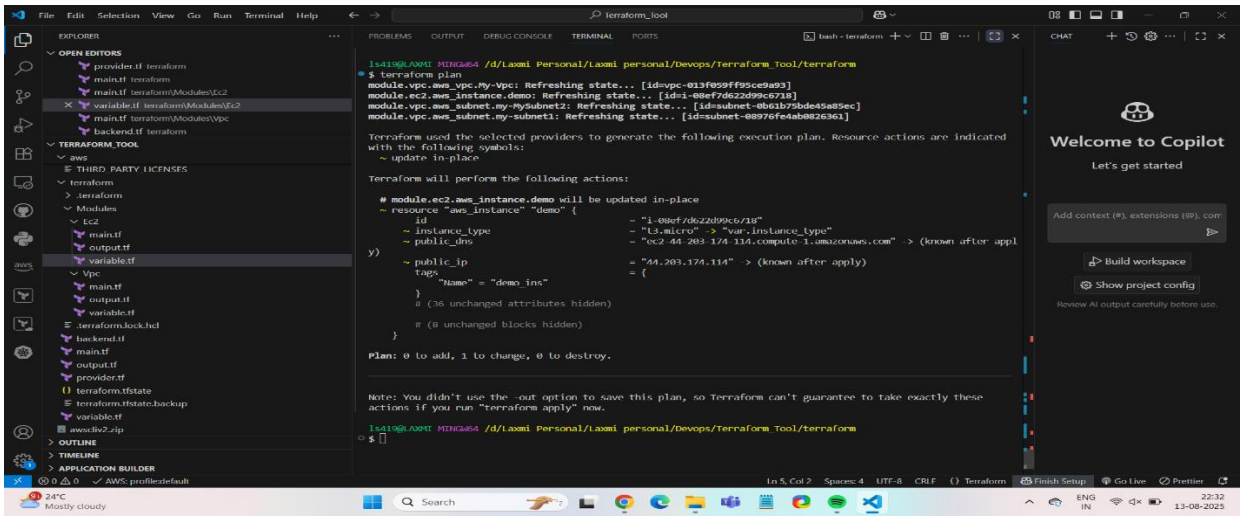


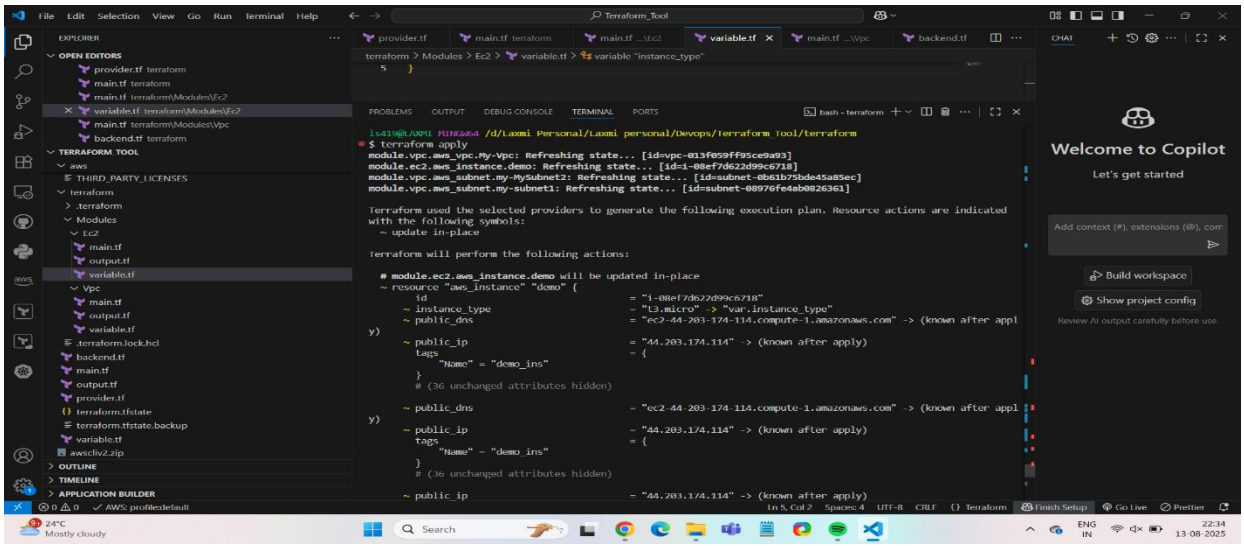
STEP 8 :- Now if we change type from t2.small to t3.micro and initiate the terraform plan we will get 1 change for same instance.





STEP 9 :- Now go to terraform folder **terraform plan**.





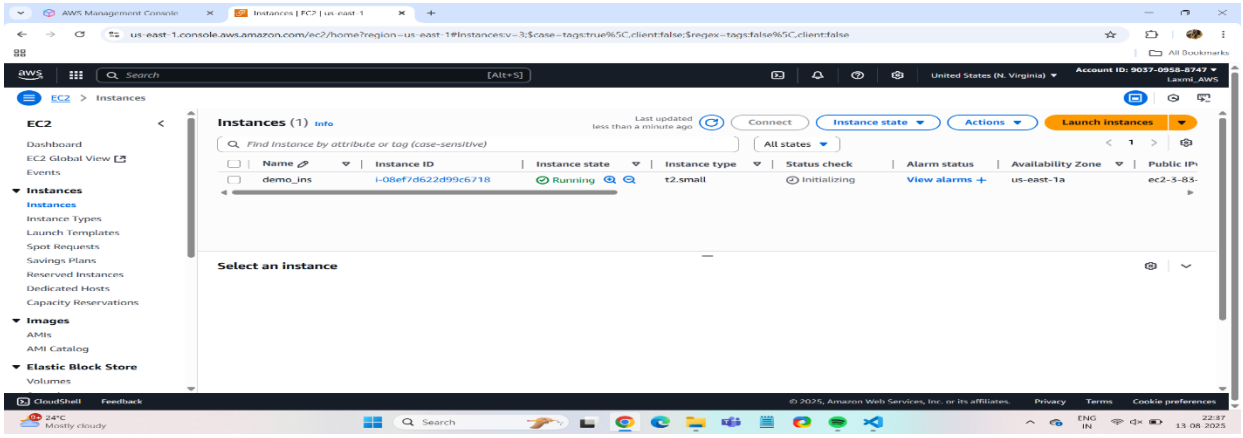
Now go to same folder's variable.tf file and write below script.

variable "instance_type" {

type = string

default = "t2.small"

}



STEP 10 :- Now go to create variable **variable**

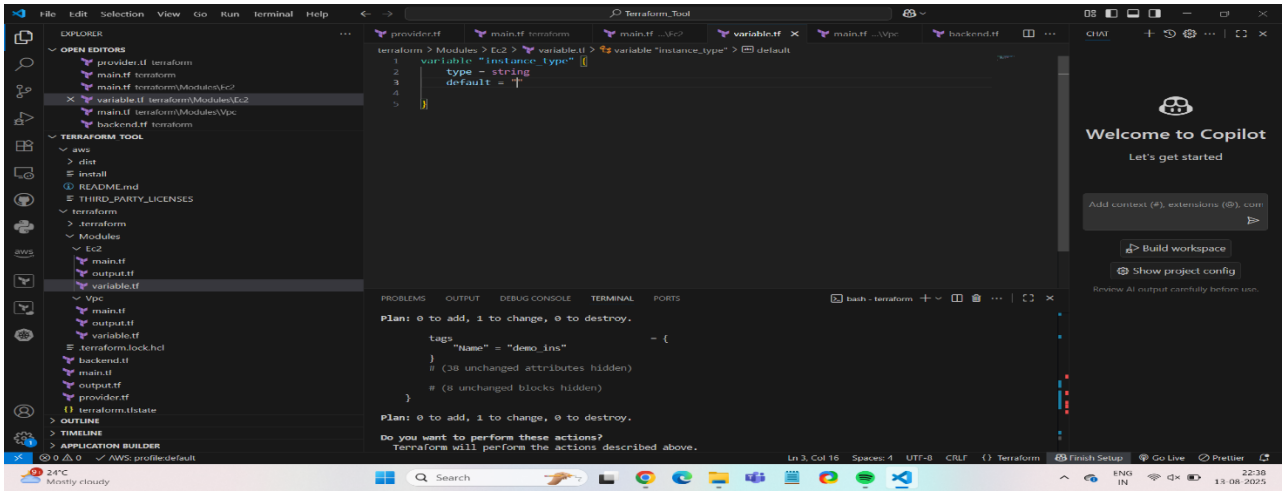
"instance_type" {

type = string

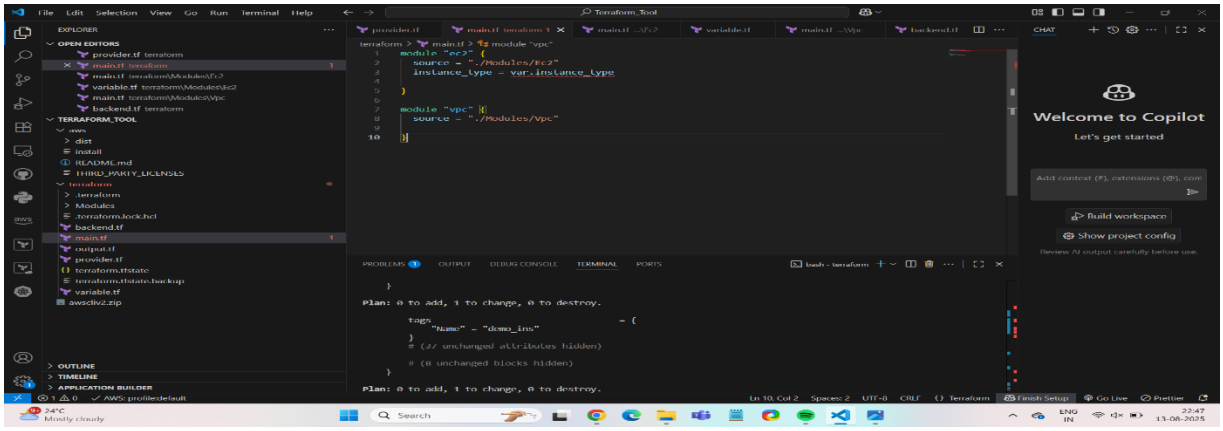
default = ""

}

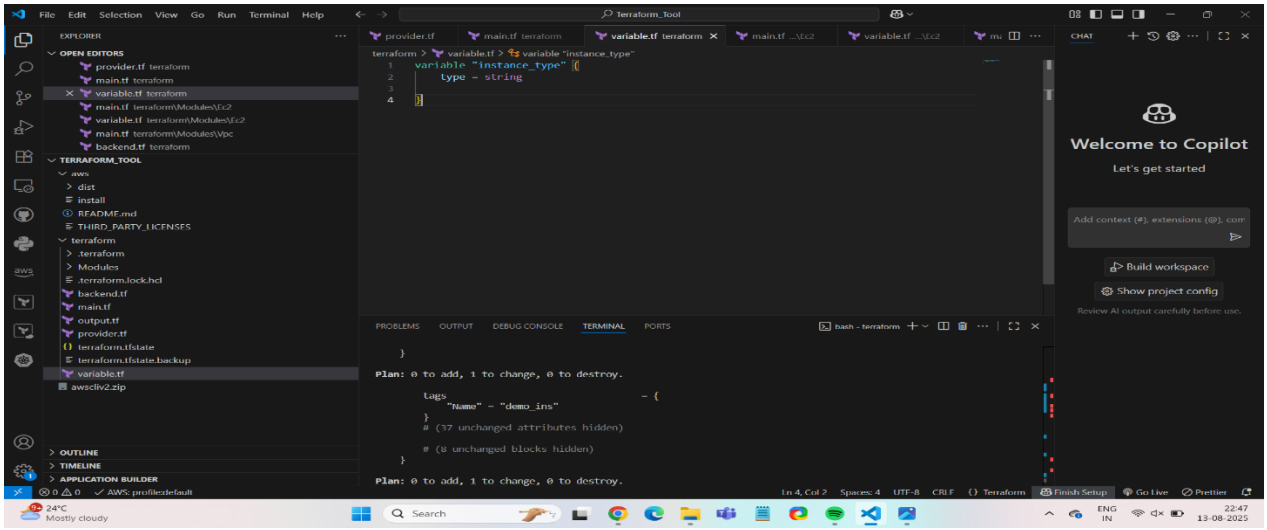
- Here we have not written any instance type so when we execute terraform plan or terraform apply command we have to fetch instance type.
- We will get instance type as we fetch it while terraform apply command.



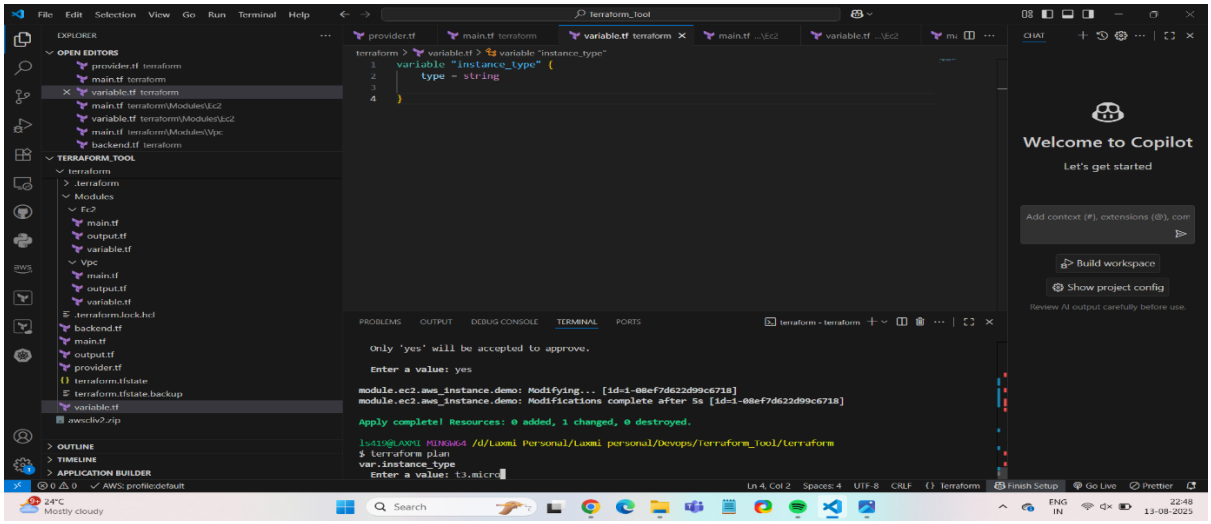
STEP 11 :- Now go to main.tf in terraform folder and mention instance_type same as we mention in ec2 folder.

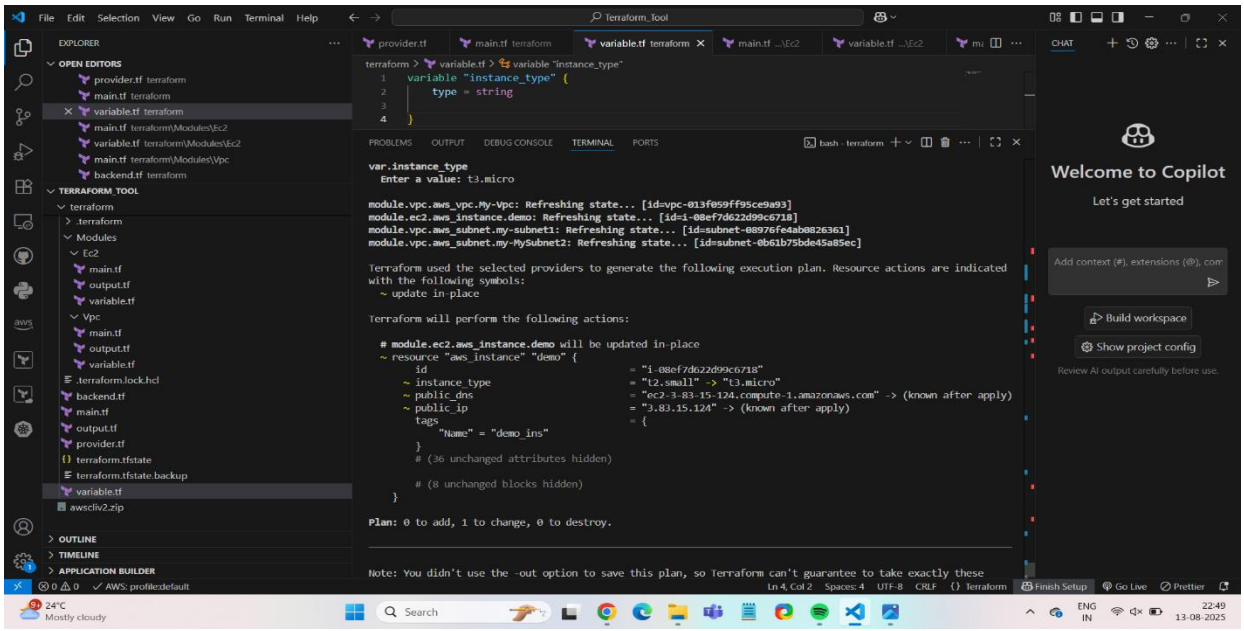


STEP 12 :- In terraform > variable.tf file we will not give any instance type.

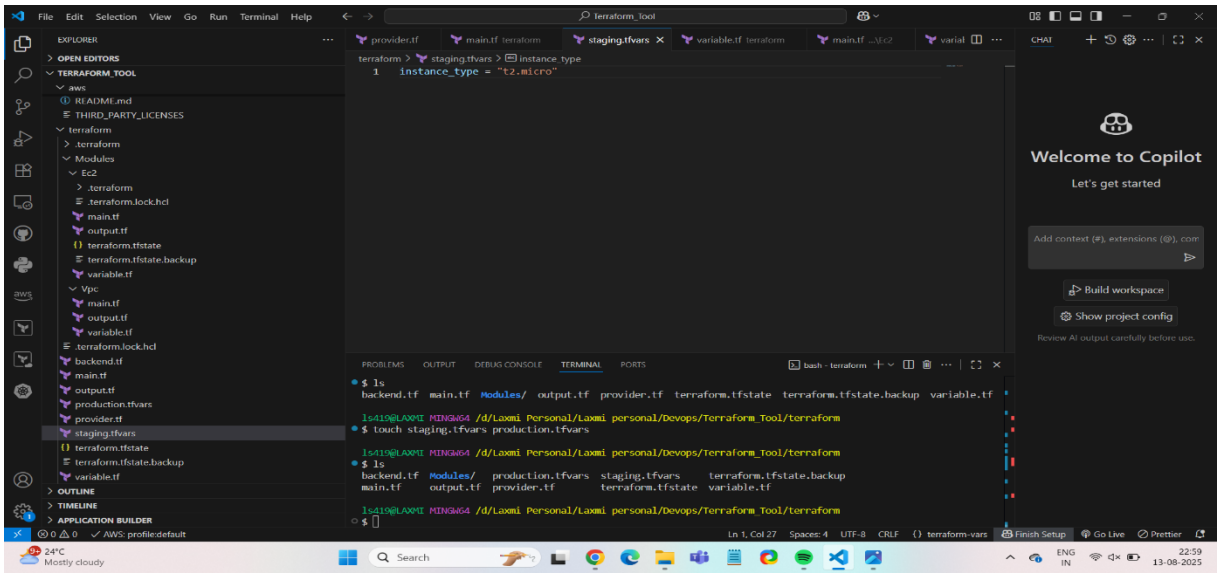


STEP 13 :- When we run terraform plan command we will have to fetch the value. Similarly we have to fetch it when we fetch terraform apply and terraform destroy command.

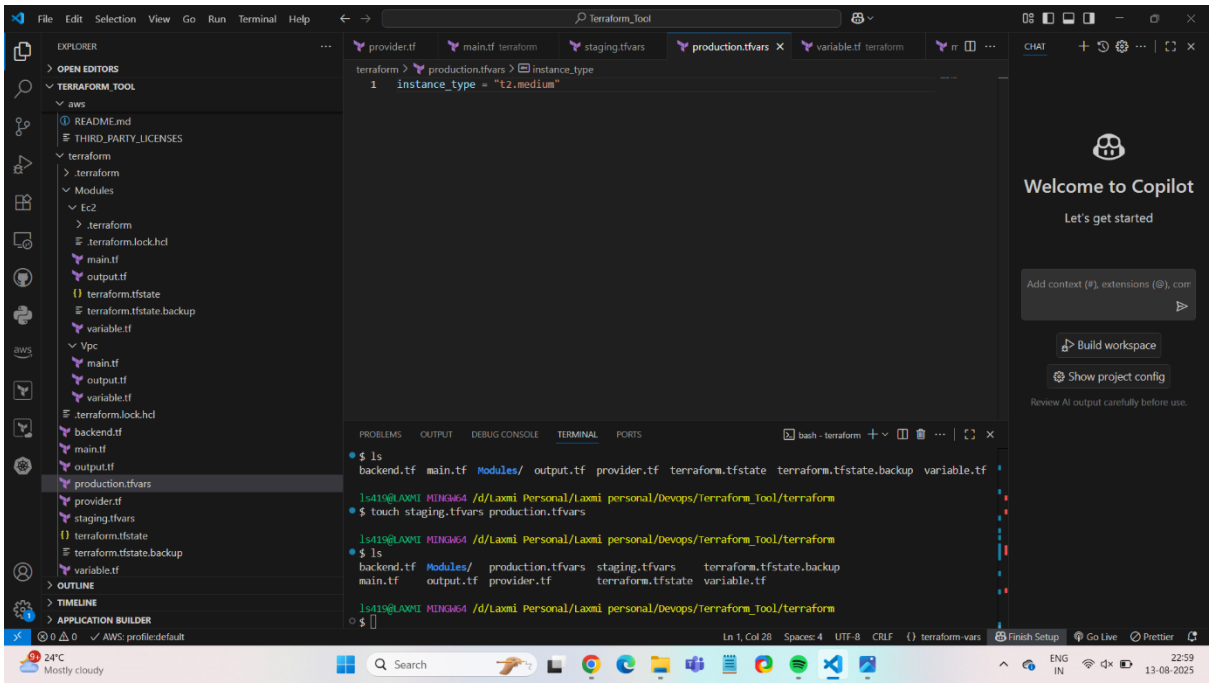




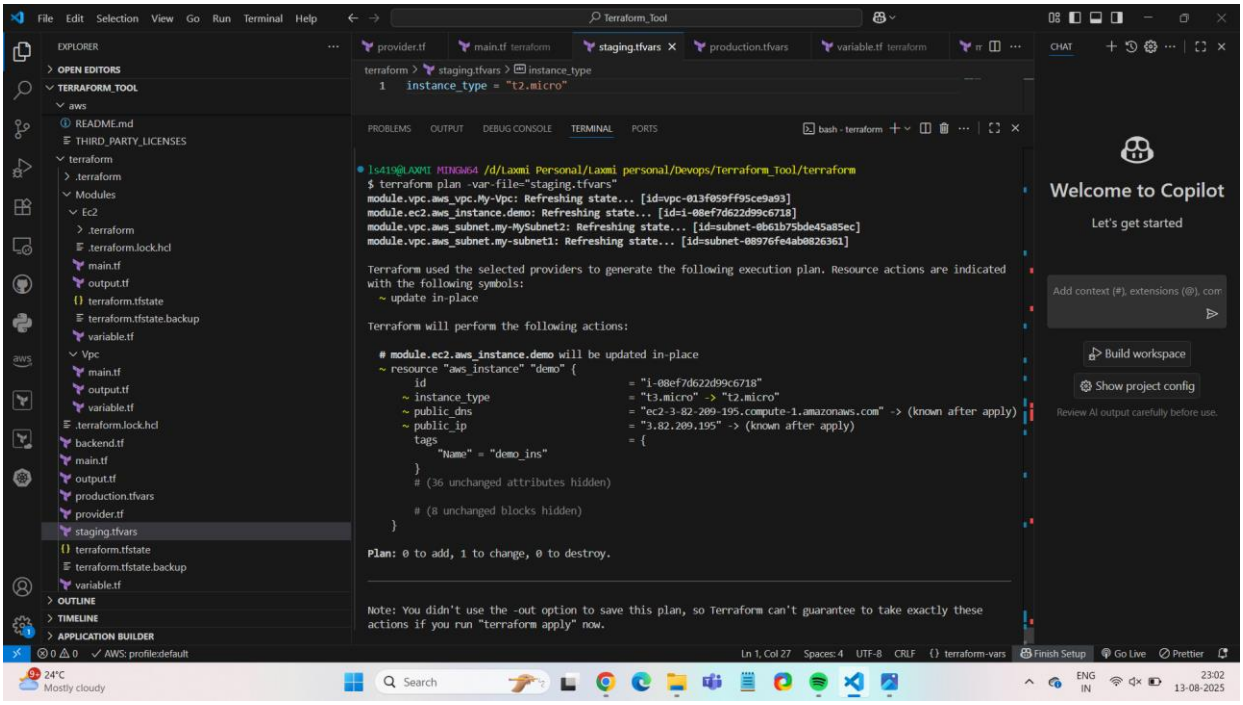
STEP 14 :- Now create one staging.tfvars file and mention t2.micro as a instance type here.



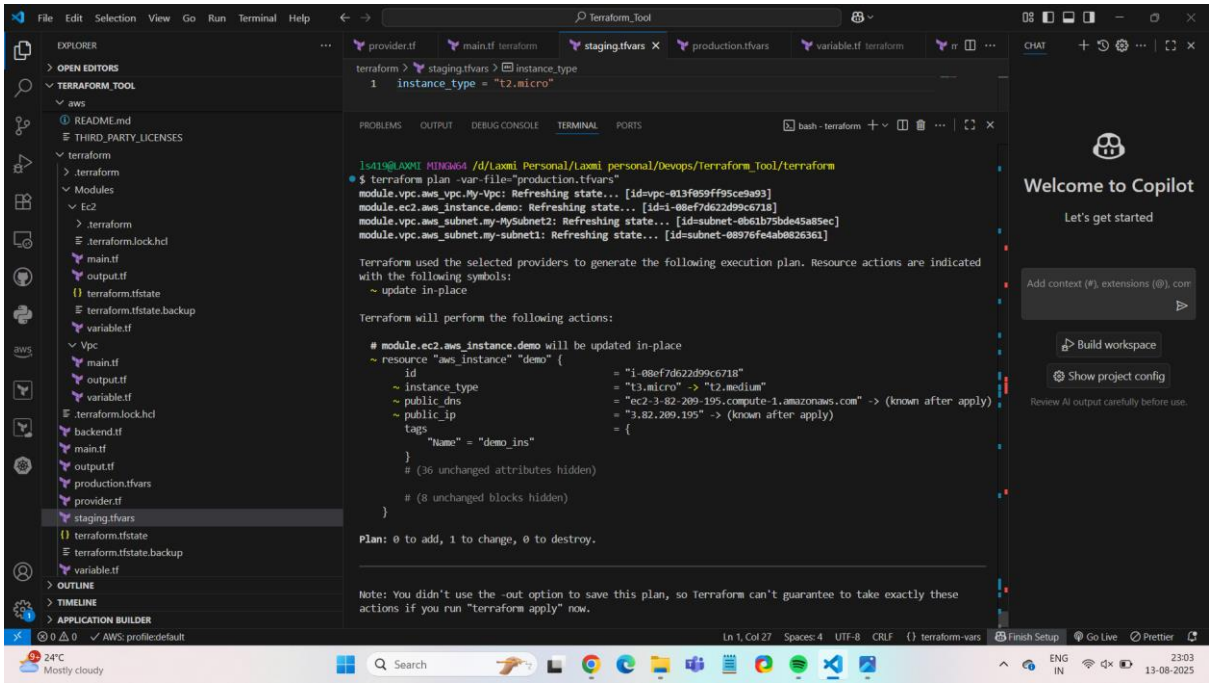
STEP 15 :- Now create one production.tfvars file and mention t2.medium as a instance type here.



STEP 16 :- Now fetch **terraform plan -var-file="staging.tfvars"** check the instance type it will be t2.micro.

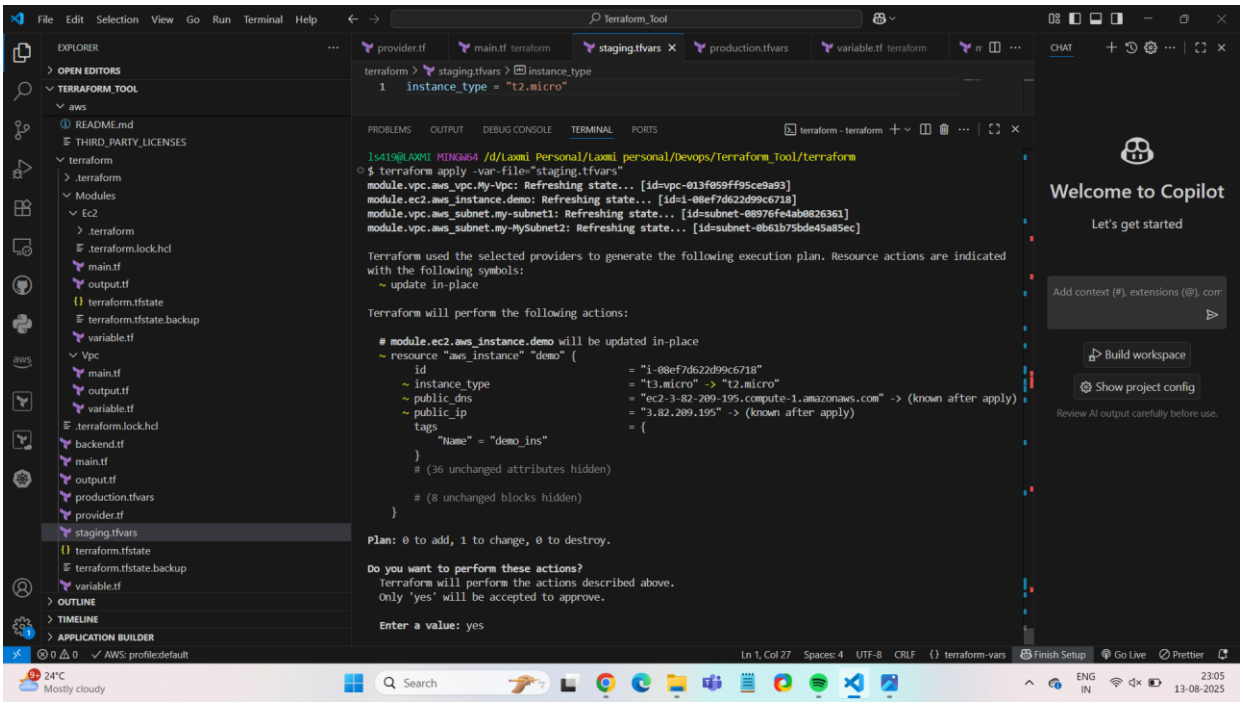


STEP 17 :- Now fetch the command **terraform plan -varfile=”production.tfvars”** here t2.small will be you’re instance type.



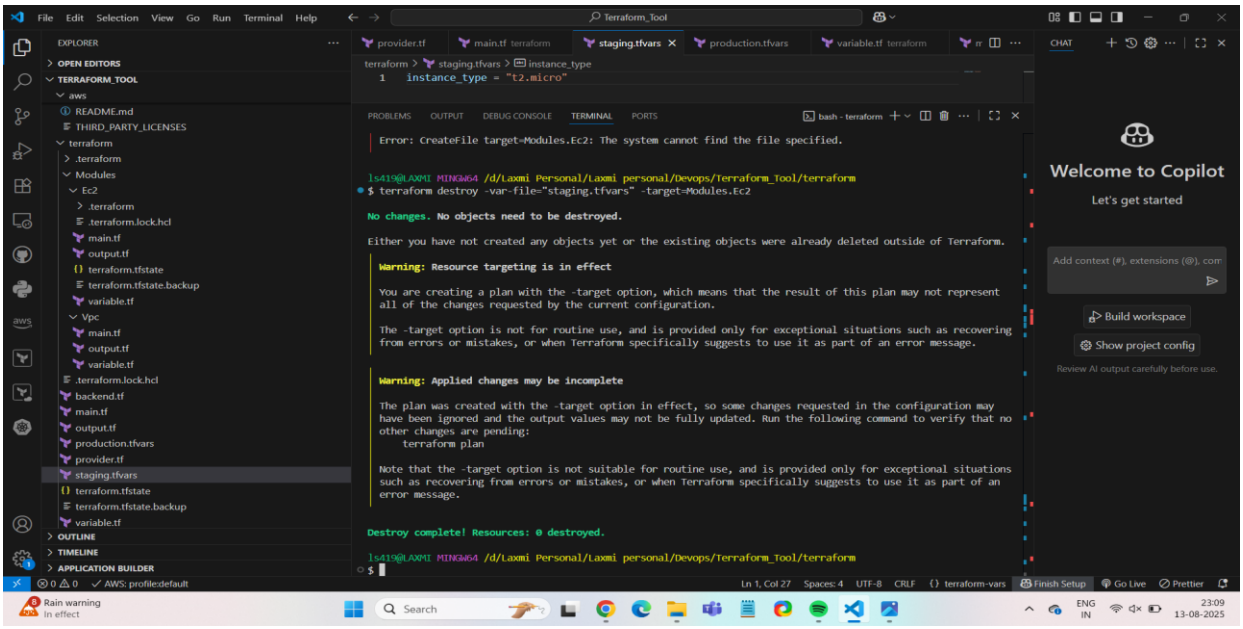
STEP 18 :- Now fetch the command

terraform apply -var-file=”staging.tfvars”



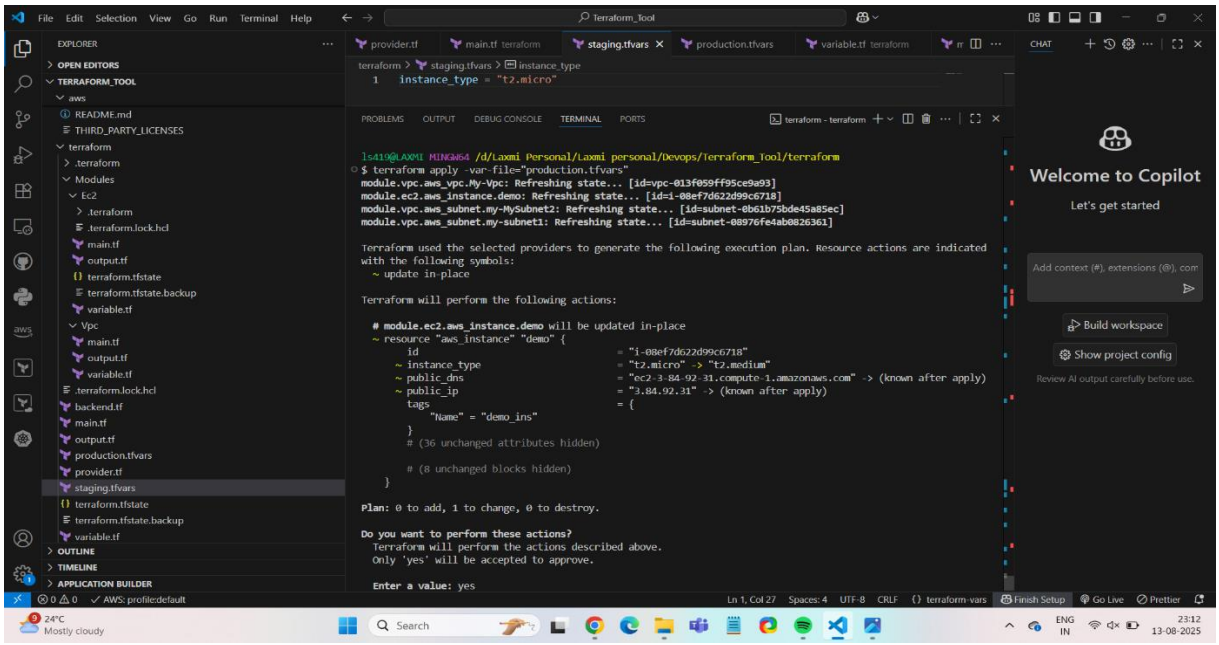
STEP 19 :- Now I will fetch the command **terraform destroy -varfile=”staging.tfvars” -target=module.ec2**

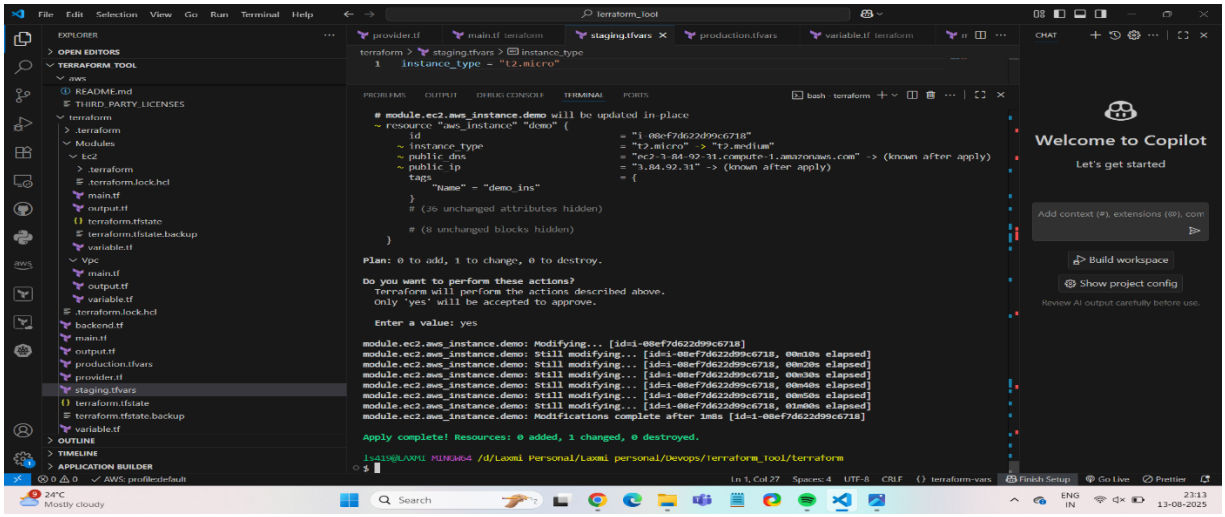
It will delete all the data inside ec2 folder. i.e. instance. And vpc and subnet will remain as it is.

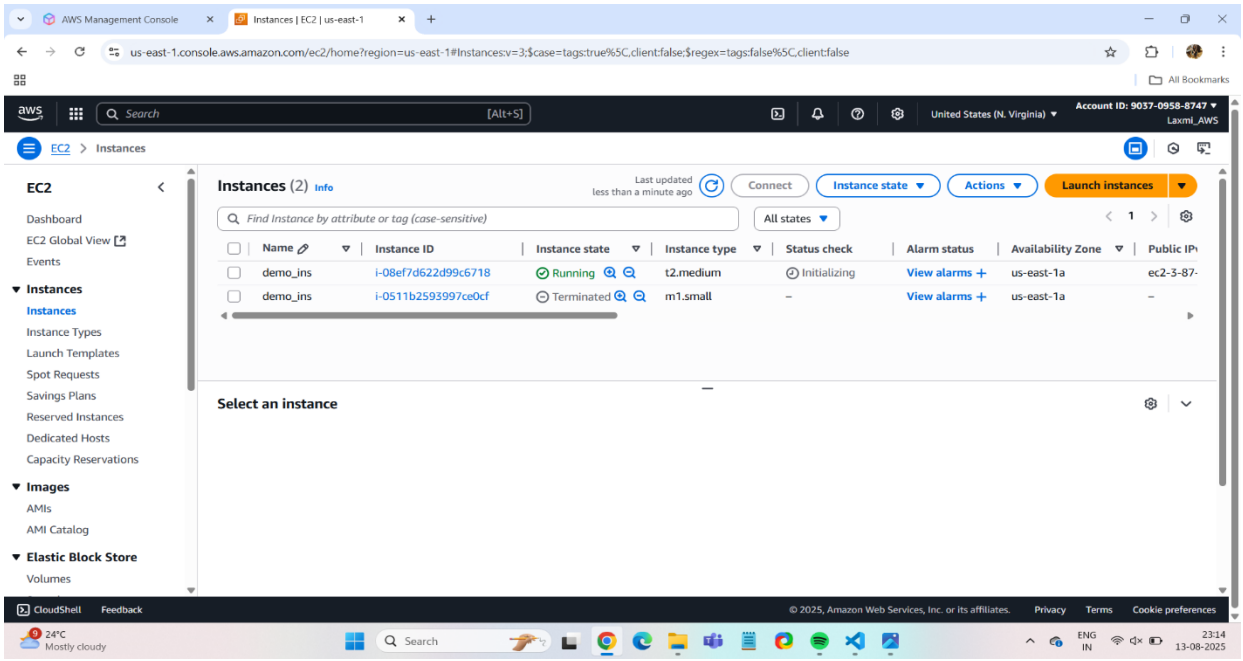


STEP 20 :- Now fetch the command

terraform apply -var-file=”production.tfvars” this command will create only one instance but will not create any vpc and if instance is already created in staging environment it will change instance type from t2.micro to t2.small.

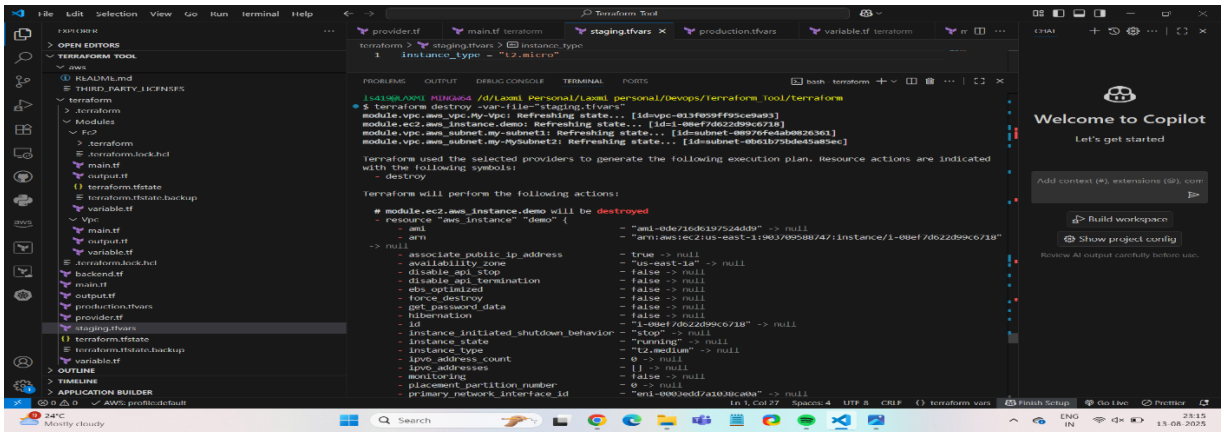






STEP 21 :- Now fetch the command

terraform destroy -var-file=”staging.tfvars” It will destroy all the resources created.



STEP 22 :- Now fetch the command

terraform destroy -var-file=”production.tfvars” It won’t delete anything as we have already delete files by fetching the command in staging.tf and it will overwrite the same data and will show 0 file destroyed.