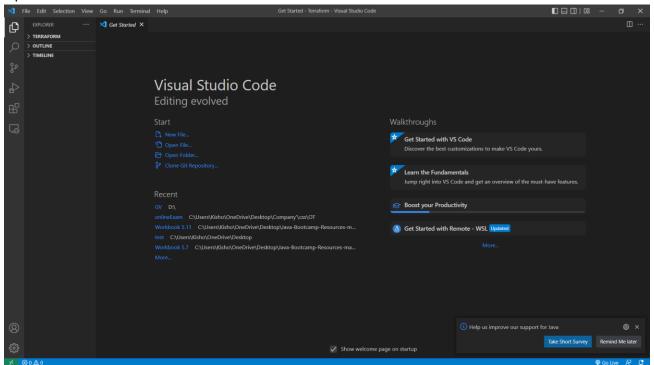
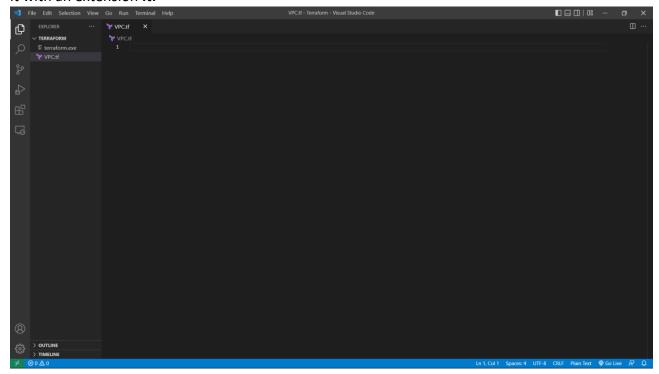
## LAUNCHING VPC VIA TERRAFORM

1) Open the VS Code



2) Click on File -> Open Folder (select the terraform.exe located folder) and create a new file and save it with an extension .tf



- 3) To create the access key in the AWS
  - click on profile -> security credentials -> Access Keys -> create New Access Key
  - download the access key file before closing the window

4) Paste the following code in VS code (change the access key and secret key with your access key credentials)

provider "aws" {
 region = "ap-south-1"
 access\_key = "AKIA4SJULK2EGGZSB77G"
 secret\_key = "c7EXSuMwowIMH8dsAT1x1gJX0/4Y3X3IX2ttt4s1"

resource "aws\_vpc" "kishore" {
cidr\_block = "10.0.0.0/16"

tags = {
 Name = "kishore"

tags = {
 Name = "kishore"

resource "aws\_subnet" "kishoresubnet" {
 vpc\_id = aws\_vpc.kishore.id

##########Internet gateway######### resource "aws\_internet\_gateway" "igw" vpc\_id = aws\_vpc.kishore.id

###########Route table############

resource "aws\_route\_table" "kishoreroutetable" {
 vpc\_id = aws\_vpc.kishore.id

route {
 cidr\_block = "0.0.0.0/0"
 gateway id = aws internet gateway.igw.id

```
provider "aws" {
region = "ap-south-1"
access_key = "AKIA4SJULK2EGGZSB77G"
secret_key = "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"
resource "aws_vpc" "kishore" {

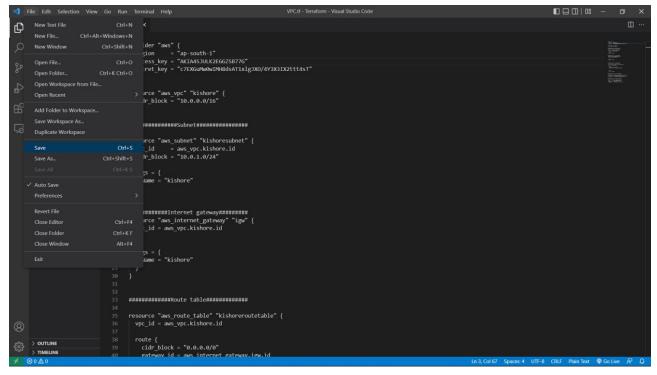
▼ VPC.tf

cidr block = "10.0.0.0/16"

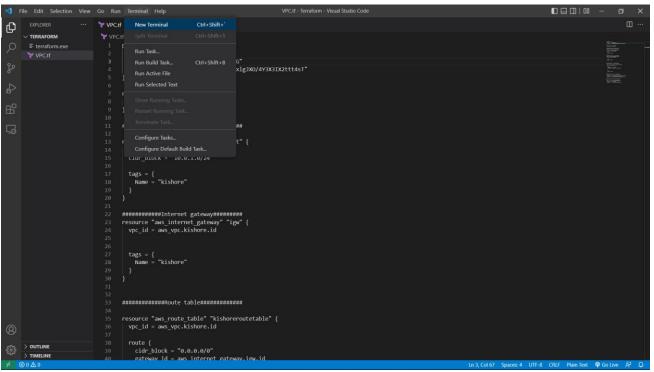
√ TERRAFORM

resource "aws_subnet" "kishoresubnet" {
vpc_id = aws_vpc.kishore.id
cidr_block = "10.0.1.0/24"
tags = {
 Name = "kishore"
}
resource "aws_internet_gateway" "igw" {
vpc_id = aws_vpc.kishore.id
tags = {
 Name = "kishore"
}
}
###########Route table###########
resource "aws_route_table" "kishoreroutetable" {
vpc_id = aws_vpc.kishore.id
route {
 cidr block = "0.0.0.0/0"
 gateway_id = aws_internet_gateway.igw.id
tags = {
 Name = "kishore"
}
###########Subnet association#########
resource "aws_route_table_association" "kishoreroutetable" {
subnet_id = aws_subnet.kishoresubnet.id
route_table_id = aws_route_table.kishoreroutetable.id
####creating Ec2 in the kishore vpc ####
resource "aws_instance" "kishoreinstance" {
         = "ami-076e3a557efe1aa9c"
instance_type = "t2.micro"
subnet_id = aws_subnet.kishoresubnet.id
}
```

5) Save the file



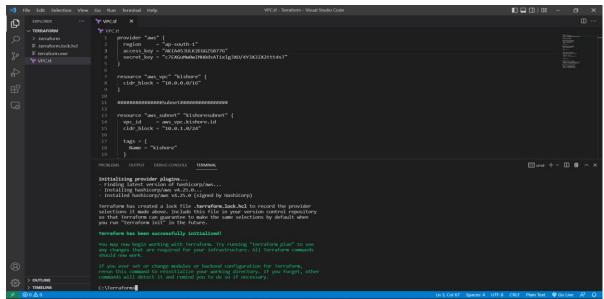
6) Click on Terminal -> New Terminal



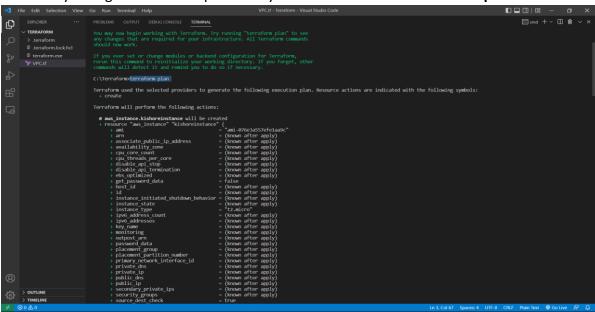
7) To Open the terminal as Command Prompt (follow the directions as per the following image)

8) Enter the following Commands in the terminal

i. To initialize -> terraform init



ii. To see any changes that are required for your infrastructure -> terraform plan

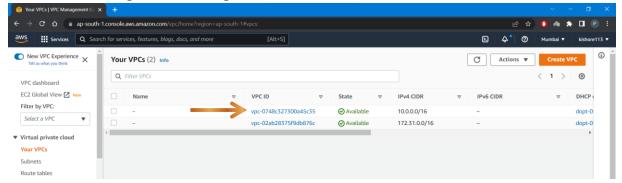


iii. Now to apply -> terraform apply -> it will ask you enter the value: type yes and press enter

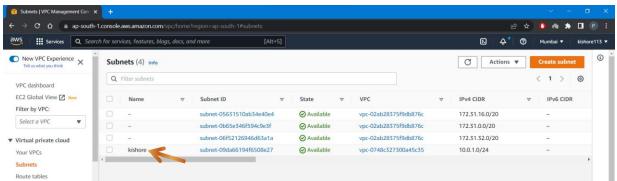
```
| DROBEN | File | Edit | Selection | View | Go | Ron | Feminal | Help | Wild | Help | Wild | Feminal | Help | Wild | Help | Wild | Feminal | Help | Wild | Feminal | Feminal | Help | Wild | Feminal | Femin
```

9) The resources will be created in AWS account, check for it

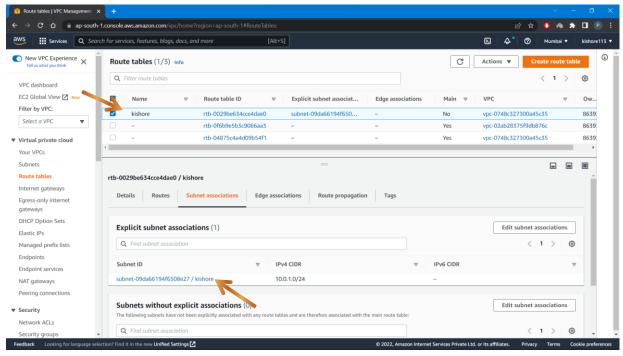
I. VPC created with given CIDR range



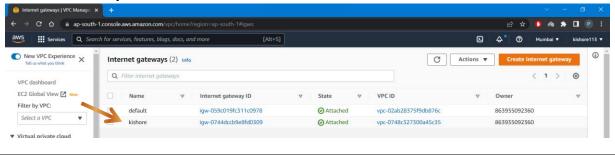
II. Subnet



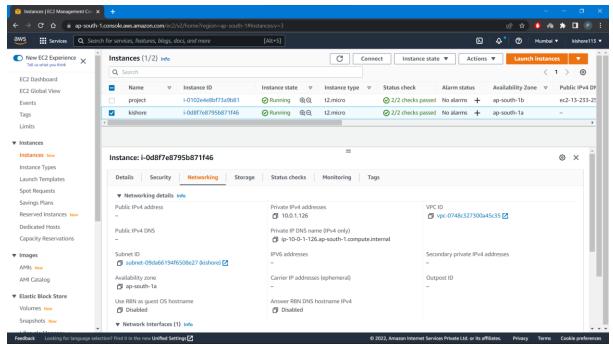
III. Route table with subnet association



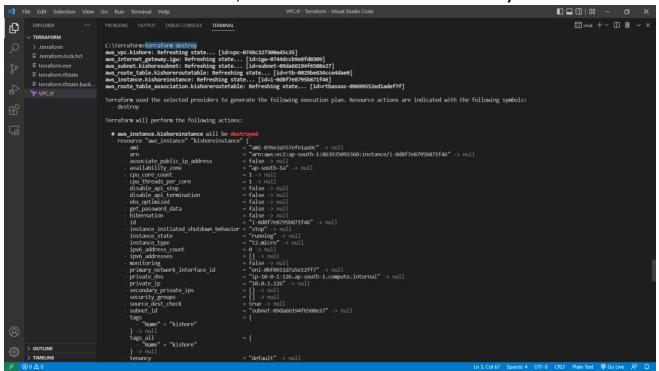
IV. Internet Gateway



V. EC2 instance within the new custom VPC



10) To delete all the created resources, enter the command -> terraform destroy in VS code terminal



Instance was terminated

