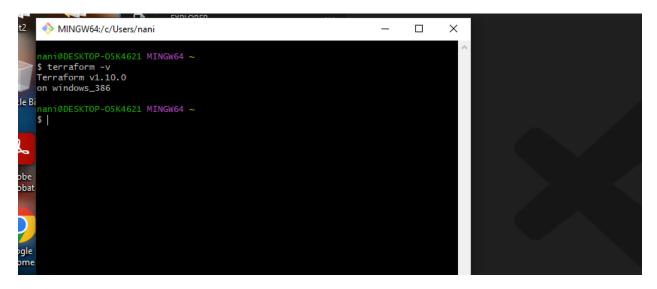
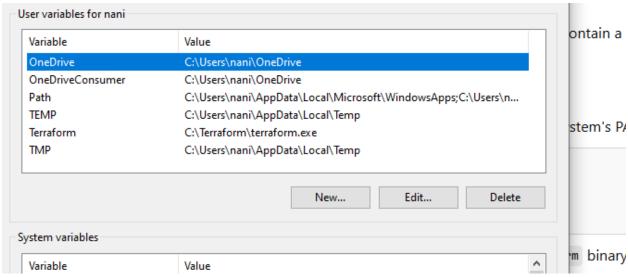
## Terraform 1 and 2

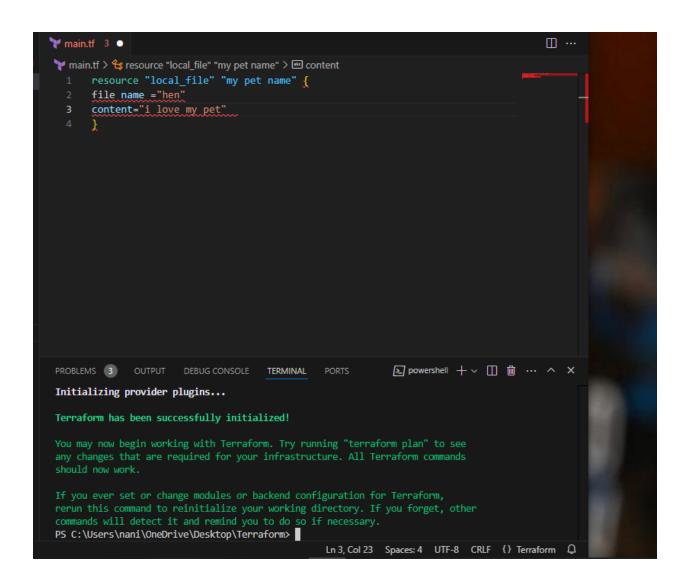
1) Install Terraform on your PC



2) Execute all the templates shown in video.

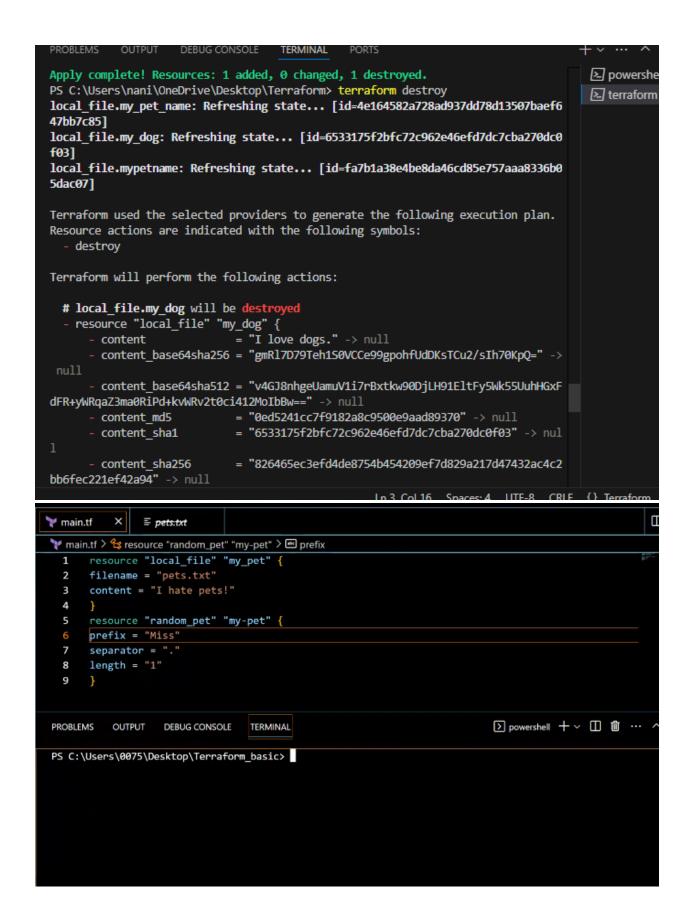


3) Note down below points, Terraform Init Terraform Plan Terraform Apply Terraform Provider.



```
Note: You didn't use the -out option to save this plan, so Terraform can't
guarantee to take exactly these actions if you run "terraform apply" now.
PS C:\Users\nani\OneDrive\Desktop\Terraform> terraform apply
Terraform used the selected providers to generate the following execution plan.
Resource actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # local_file.my_dog will be created
  + resource "local_file" "my_dog" {
                             = "I love dogs."
     + content
      + content base64sha256 = (known after apply)
     + content base64sha512 = (known after apply)
     + content_md5 = (known after apply)
+ content_sha1 = (known after apply)
+ content_sha256 = (known after apply)
     + content sha512 = (known after apply)
     + directory_permission = "0777"
     + file_permission = "0777"
      + filename
                             = "dog.txt"
      + id
                            = (known after apply)
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
PS C:\Users\nani\OneDrive\Desktop\Terraform> terraform plan
Terraform used the selected providers to generate the following execution plan.
Resource actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # local file.my dog will be created
  + resource "local_file" "my_dog" {
                              = "I love dogs."
      + content
      + content base64sha256 = (known after apply)
      + content base64sha512 = (known after apply)
      + content md5 = (known after apply)
      + content sha1
                             = (known after apply)
     + content_sha256 = (known after apply)
+ content_sha512 = (known after apply)
     + directory permission = "0777"
      + file_permission = "0777"
      + filename
                             = "dog.txt"
      + id
                              = (known after apply)
```

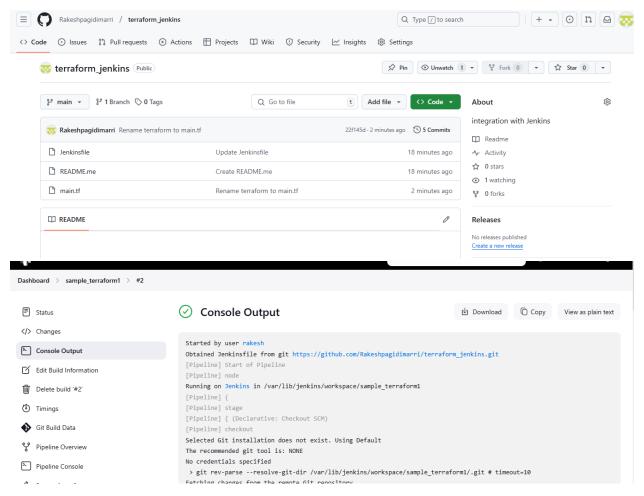
```
Resource actions are indicated with the following symbols:
-/+ destroy and then create replacement
Terraform will perform the following actions:
 # local_file.mypetname must be replaced
/+ resource "local_file" "mypetname" {
                          = "i hate my pet." -> "i love my pet." # forces rep
     content
     ~ content_base64sha256 = "ZIRB53ZFnCVUaypt23tySrEjY7dr2MqVvBz3aFpBT/8=" ->
 (known after apply)
     content_base64sha512 = "2FN46nr3NU18woZd9u7hyh2wBdwZ3uU/tKmQXV5iRnlkd63T
Only 'yes' will be accepted to approve.
 Enter a value: yes
local file.mypetname: Destroying... [id=e1668968cd739f189d262613cd7a7bc52ea7c2f3
local file.mypetname: Destruction complete after 0s
local file.mypetname: Creating...
local file.mypetname: Creation complete after 0s [id=fa7b1a38e4be8da46cd85e757aa
a8336b05dac07]
Apply complete! Resources: 1 added, 0 changed, 1 destroyed.
```



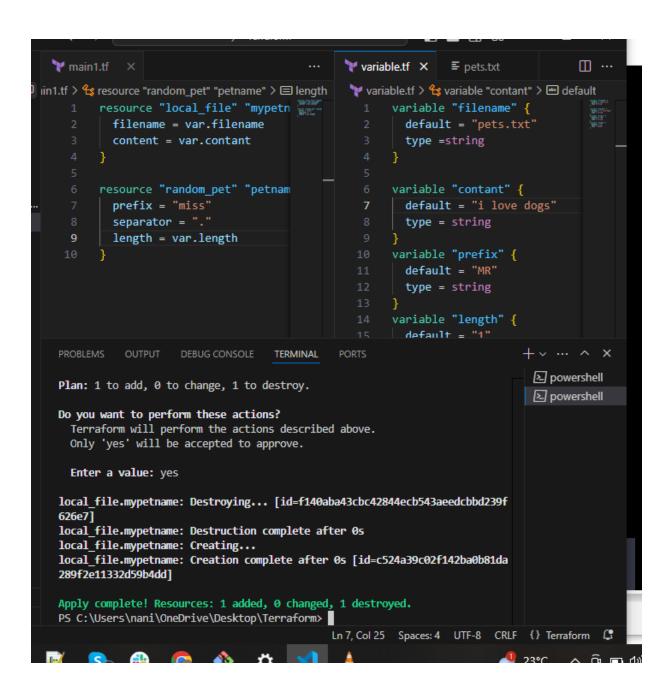
```
local_file.my_dog: Destruction complete after 0s

Destroy complete! Resources: 3 destroyed.
PS C:\Users\nani\OneDrive\Desktop\Terraform> terraform fmt
    chief.tf
    main.tf
    main2.tf
PS C:\Users\nani\OneDrive\Desktop\Terraform> []
```

4) Integrate a sample Terraform template in jenkins.



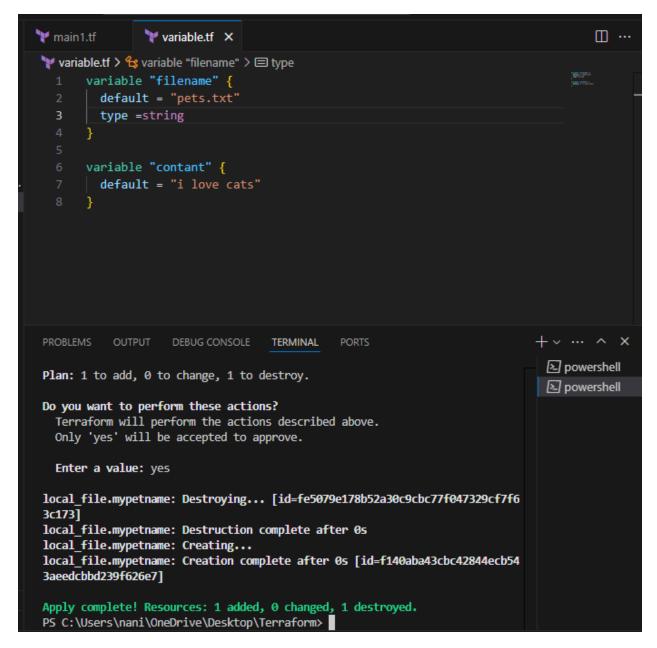
- 5) Watch the terraform-02 video.
- 6) Execute all the templates shown in video.



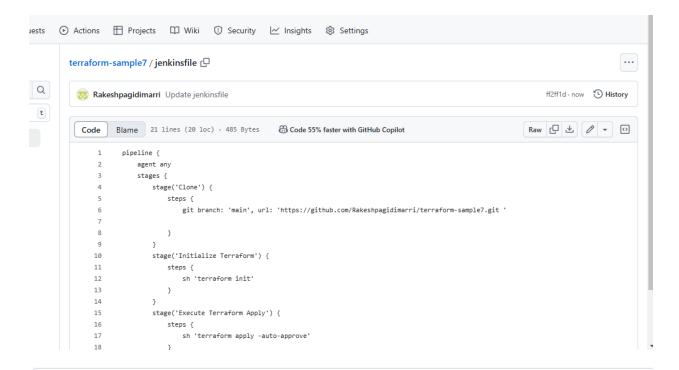
```
main1.tf X
                {} terraform.tfstate
                                                                                      □ ...
🦖 main1.tf > 😭 resource "random_pet" "petname" > 🖭 separator
       resource "local_file" "mypetname" {
         filename = "pets.txt"
         content = "i love my zebra"
         lifecycle {
           create_before_destroy = true
       resource "random_pet" "petname" {
         prefix = "miss"
         separator = "."
 11
         length = "1"
                                                                             + ~ ··· ^ ×
                    DEBUG CONSOLE
           OUTPUT
                                    TERMINAL
                                                                               powershell
  Only 'yes' will be accepted to approve.
                                                                              powershell
  Enter a value: yes
random_pet.petname: Destroying... [id=mr.penguin]
random_pet.petname: Destruction complete after 0s
local_file.mypetname: Creating...
local_file.mypetname: Creation complete after 0s [id=fe5079e178b52a30c9cbc7
7f047329cf7f63c173]
random_pet.petname: Creating...
random_pet.petname: Creation complete after 0s [id=miss.orca]
local_file.mypetname (deposed object b0fd656a): Destroying... [id=ab5698382
c31cff07c6adfede0c7167d1c348806]
local_file.mypetname: Destruction complete after 0s
Apply complete! Resources: 2 added, 0 changed, 2 destroyed.
PS C:\Users\nani\OneDrive\Desktop\Terraform>
```

```
🦖 main1.tf 🛛 🗙
               terraform.tfstate
🦖 main1.tf > ધ resource "local_file" "mypetname" > ધ lifecycle > 🖼 prevent_destroy
       resource "local file" "mypetname" {
         filename = "pets.txt"
         content = "i love my zebra"
         lifecycle {
           prevent_destroy = true
       resource "random_pet" "petname" {
         prefix = "miss"
         separator = "."
        length = "1"
                                                                             + ~ ··· ^ ×
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                              PORTS
                                                                              powershell
      + id
                            = (known after apply)
                                                                              ▶ powershell
Plan: 1 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.
  Enter a value: yes
local file.mypetname: Creating...
 local file.mypetname: Creation complete after 0s [id=fe5079e178b52a30c9cbc7
7f047329cf7f63c173]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS C:\Users\nani\OneDrive\Desktop\Terraform>
```

```
main1.tf
                {} terraform.tfstate
                                                                                      Ⅲ ...
🦖 main1.tf > 😭 resource "local_file" "mypetname" > 😭 lifecycle > [ ] ignore_changes > 🖃 0
       resource "local_file" "mypetname" {
         filename = "pets.txt"
         content = "i love my zebra11"
         lifecycle {
           ignore_changes = [
  6
           contant
       resource "random_pet" "petname" {
         prefix = "miss"
         separator = "."
         length = "1"
                                                                             + v ... ^ ×
PROBLEMS
           OUTPUT DEBUG CONSOLE
                                    TERMINAL
                                              PORTS
                                                                               ≥ powershell
    on main1.tf line 6, in resource "local_file" "mypetname":
                                                                              powershell
     6:
            contant
  This object has no argument, nested block, or exported attribute named
   "contant". Did you mean "content"?
PS C:\Users\nani\OneDrive\Desktop\Terraform> terraform apply
```



7) Integrate terraform in jenkins using Terraform plugin.



Rakeshpagidimarri Create main.tf

```
Code
        Blame
                12 lines (12 loc) · 221 Bytes
                                                   8 Code 55% faster with GitHub Copilot
    1
          resource "local_file" "mypetname" {
    2
           filename = "pets.txt"
            content = "i love my pets"
    3
    4
          lifecycle {
    5
           create_before_destroy = true
    6
    7
          }
    8
          resource "random_pet" "petname" {
    9
          prefix = "Mr"
           separator = "."
   10
           length = "1"
   11
   12
          }
```

