Week 2 Assignment 1

File Path - https://github.com/shubhamsharma11/TerraformProjects

main.tf

```
provider "azurerm" {
 features {}
# Create a resource group
resource "azurerm_resource_group" "rg04" {
 name = var.rg_name
 location = "East US"
# Create a virtual network within the resource group
resource "azurerm_virtual_network" "vnet02" {
          = var.vnet name
 resource_group_name = azurerm_resource_group.rg04.name
            = azurerm_resource_group.rg04.location
 location
                 = ["10.0.0.0/16"]
 address_space
= azurerm_resource_group.rg04.location
 resource_group_name = azurerm_resource_group.rg04.name
 allocation_method = "Static"
resource "azurerm_network_interface" "nic01" {
         = "nic_test_01"
 location
                  = azurerm_resource_group.rg04.location
 resource_group_name = azurerm_resource_group.rg04.name
 ip_configuration {
                            = "internal"
   name
   subnet id
                            = azurerm_subnet.subnet01[0].id
   private_ip_address_allocation = "Dynamic"
   public_ip_address_id
                            = azurerm_public_ip.publicip01.id
resource "azurerm_subnet" "subnet01" {
         = length(var.subnet_ip)
                   = var.subnet_name[count.index]
 resource_group_name = azurerm_resource_group.rg04.name
 virtual_network_name = azurerm_virtual_network.vnet02.name
 address_prefixes
                 = [var.subnet_ip[count.index]]
# This line is to follow company policy as boot diagnostics should be enabled
/*Create a storage account to create blob storage for the boot diag output*/
resource "azurerm_storage_account" "diagSA01" {
                       = "bootdiagsa021220232"
 ------
resource "azurerm_virtual_machine" "vm01" {
                    = "vm_test_01"
 name
 location
                    = azurerm_resource_group.rg04.location
```

```
resource_group_name = azurerm_resource_group.rg04.name
  network_interface_ids = [azurerm_network_interface.nic01.id]
                        = "Standard_DS1_v2"
  vm size
  # This line is to follow company policy as boot diagnostics should be enabled
  boot_diagnostics {
    enabled = "true'
    storage_uri = azurerm_storage_account.diagSA01.primary_blob_endpoint
 # Uncomment this line to delete the OS disk automatically when deleting the VM
 # delete_os_disk_on_termination = true
  # Uncomment this line to delete the data disks automatically when deleting the VM
  # delete_data_disks_on_termination = true
  storage_image_reference {
   publisher = "Canonical"
offer = "0001-com-ubuntu-server-jammy"
              = "22_04-lts"
    sku
    version = "latest"
  storage_os_disk {
    name
                      = "myosdisk1"
                      = "ReadWrite"
    caching
                    = "FromImage"
    create_option
    managed_disk_type = "Standard_LRS"
  os_profile {
    computer_name = "hostname"
    admin_username = "testadmin"
    admin_password = "Password1234!"
 os_profile_linux_config {
    disable_password_authentication = true
    ssh_keys {
               = "/home/testadmin/.ssh/authorized_keys"
      key_data = "ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQCywo3fhW1eU1NCRRgTsHHbUlwJKQNK5RA156cwK1YmySgt3ZKNd31q0C5UFV+z1bwGNHi0bA
Nr1LTXxkngitiZ4mfitiT/dmhe24qVGdc9dgVXRmSH1wEeiJTQGIN/dBRtLBbV5cNrZNGsksVq^GoEzgEHHDdQYpohPL0HBhqvBBNw
Cs/X6IagH1T0uLm40ihCWc1FmDTMxgPytj8t6VNzXNuH2ubq/s2fhY2yIo2AsGeJXXQc4o2yipwWC0Zg+h406zS/mKRTmGqXarTJos
2e8hPB4FwRAI37yKb+lqgGUs3wPnb+m+MMMw1iRvPreZnCVDEh2jwCY0CXn/phGggz vmuser@CNative"
    }
 }
resource "null_resource" "copy-file" {
 provisioner "file" {
  source = "text1.txt"
    destination = "text1.txt"
    connection {
     type = "ssh"
      user = "testadmin"
      private_key= "${file("C:\\Users\\VMUser\\.ssh\\id_rsa1")}"
      host = azurerm_public_ip.publicip01.ip_address
    }
 }
resource "null_resource" "remote-command" {
 provisioner "remote-exec" {
    inline = \Gamma
      "cp text1.txt text2.txt"
    connection {
      type = "ssh"
      user = "testadmin"
      private_key = "${file("C:\\Users\\VMUser\\.ssh\\id_rsa1")}"
      host = azurerm_public_ip.publicip01.ip_address
```

}

```
} }
```

variable.tf

text1.txt

This is text file.
This will be copied to the server