Provision EC2 with main file with default variables from varibles.tf

```
Y main.tf X Y varibles.tf
                                                                                            varibles.tf > 😝 variable "Name"

variable "ami" {
                                                                                                                           default = "ami-00bb6a80f01f03502"
              source = "hashicorp/aws"
version = "~> 5.0"
      }
                                                                                                                      variable "instance_type" {
  default = "t2.micro"
                                                                                                                     variable "Name" {
  default = "web1"
        # Configure the AWS Provider
provider "aws" {
   region = "ap-south-1"
}
           ami = var.ami
instance_type = var.instance_type
           tags = [{]
| Name = var.Name
]}
                                                           = (known after apply)
= (known after apply)
= {
        + spot_instance_request_id
+ subnet_id
        + tags
+ "Name" = "web1"
           tags_all
                 _011
"Name" = "web1"
           tenancy
                                                           = (known after apply)
```

Provision EC2 with main file without default variables.tf it asks inputs from user for required values.

```
main.tf
               varibles.tf X
🚩 varibles.tf > ધ variable "Name"
      variable "ami" {
      variable "instance_type" {
      variable "Name" {
      | # default = "web1"
 11
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
DELL@TECH-SIRI MINGW64 ~/OneDrive/Desktop/terraform (master)
$ terraform plan
 Enter a value: ami-00bb6a80f01f03502
var.instance type
Terraform used the selected providers to generate the following execution plan. Resource ac
 + create
```

Create terraform.tfvars file and define variables on it and run terraform plan, variables picked from terraform.tfvars files

```
varibles.tf X terraform.tfvars
🚩 varibles.tf > 😭 variable "ami"
                                                                                                                                      Y terraform.tfvars > M Name
                                                                                                                                                ami="ami-00bb6a80f01f03502"
instance_type = "t3.micro"
              default = "ami-00bb6a80f01f03502"
                                                                                                                                                Name="web22"
            default = "t2.micro
         variable "Name" {
           default = "web1
               OUTPUT DEBUG CONSOLE TERMINAL PORTS
                                                                      = "t3.micro"
         + instance_type
                                                                 = (known after apply)
= (known after apply)
= (known after apply)
         + ipv6_address_count
         + ipv6_addresses
         + key_name
                                                                     = (known after apply)
         + monitoring
         + outpost arn
         + password_data
         + placement_group
+ placement_partition_number
+ primary_network_interface_id
         + placement_group
         + private_dns
         + private_ip
+ public_dns
         + public_ip
         + secondary_private_ips
                                                                      = (known after apply)
        + source_dest_check
+ spot_instance_request_id
+ subnet_id
+ tags
                                                                      = (known after apply)
                                                                     = true
= (known after apply)
= (known after apply)
= {
         + tags
+ "Name" = "web22"
            tags_all
                   _all
"Name" = "web22"
```

Create testing.tfvars & prod.tfvars file and define environmental specific variables on them and pass \*.tfvars file during run time and notice what values are being picked during run time.

