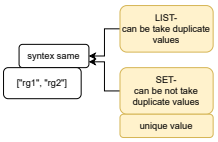
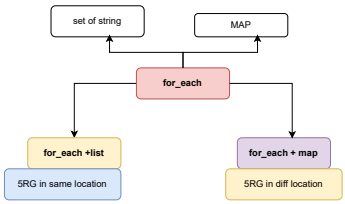
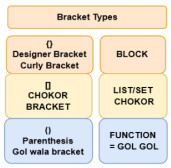







```hcl
variable "resource_groups" {
  default = {
    "dev"     = "eastus"
    "staging" = "westus"
    "prod"    = "centralus"
  }
}

resource "azurerm_resource_group" "example" {
  for_each = var.resource_groups
  name     = "rg-${each.key}"
  location = each.value
}
```

The `for_each` meta-argument accepts a set of strings, and creates an instance for each item in that set.

```hcl
resource "azurerm_resource_group" "resource_group" {
  for_each = toset(["rg-emu1", "rg-emu2", "rg-emu3", "rg-emu4"])
  name     = each.key
  location = "West Europe"
}
```

Syntax of function

function_name(list)

toset(["rg-emu1", "rg-emu2", "rg-emu3"])

- `each.key` — set member corresponding to this instance.
- `each.value` — If a set was provided, this is the same as `each.key`

Jab hum set of strings ka upyog karte hai tab each.key aur each.value dono ek hi hota hai, jo marzi use karo, koi farak nahi padta....

ForEach + List

Input

rg_names = ["rg1", "rg2", "rg3", "rg4", "rg4"] - LIST

```hcl
resource "azurerm_resource_group" "resource_group" {
  for_each = toset(var.rg_names)  - MAP/SET OF STRINGS
  name     = each.key
  location = "West Europe"
}
```

Delete wala problem solve..

5 RG ek hi region me bana sakte hai.. matlab alg alg region me nahi bn paega rg...

ForEach + Map

RG ALG ALG REGION ME BANA NA HAI..

Input

rg_names variable hai

```hcl
rg_names = {
            "rg1" = "WestEurope"
            "rg2" = "Centralindia"
            "rg3" = "CanadaCentral"
}
```

```hcl
resource "azurerm_resource_group" "resource_group" {
  for_each = var.rg_names  - {"rg2" = "CentralIndia"}
  name     = each.key - rg1
  location =  each.value - Westfurope
}
```

Input Alg tarike wala

rg_names variable hai uske andar me map me hum log ek key hai rg_ka_naam uska value portal p rg1 hona chahiye...

```hcl
rg_names = {
        "rg_ka_naam" = "rg1"
        "rg_ka_location" = "WestEurope"
}
```

```hcl
resource "azurerm_resource_group" "resource_group" {
  for_each = var.rg_names  - {"rg2" = "CentralIndia"}
  name     = each.key - rg1
  location =  each.value - Westfurope
}
```

Ye JSON hai..

```
"rg_names" : {
        "roti": "sabji"
        "chawal": "dal"
        "rajma": "chawal"
        "kadi": "chawal"
}
```

List Kya hai?

["dal", "chawal, "sabji, "roti"]

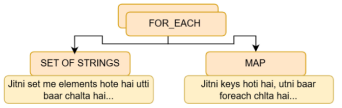
MAP Kya hai?

```
{
    key = value
    key =  value
    key = value
}
```

```
{
        "monu" = "ladka hai" - string value
        "tonu"  = 30 - number value
        "tinku" = true - bool value
        "tinku" = [ "one", "two"] - list value
}
```

KEY IS ALWAYS A STRING

VALUE KUCH BHI HO SAKTI HAI




```hcl
resource "azurerm_resource_group" "rgs" {
    for_each = {
        "rg1" = "West Europe"
        "rg2" = "Central India"
        "rg3" = "Canada Central"
        "rg4" = "East US"
    }
  name     = each.key
  location = each.value
}
```

```hcl
resource "azurerm_resource_group" "rgs" {
  for_each = var.rgs
  name     = each.key
  location = each.value
}
```

```hcl
START
rgs = {
    "rg1"  = {
                name = "rg-tutu"
                location = "West Europe"
        }
    "rg2"  = {
                name = "rg-lulu"
                location = "Canada Central"
        }
    "rg3"  = {
                name = "rg-kuku"
                location = "Central India"
        }
}
END
```

1. rgs ho gya variable.
2. rg me dal rahe hai nested map.
3. ye nested map hota hai map ke andar map
4. map kya hota hai

```
{
key = value
key = value
key = value
}
```