**Assignment:** Use Terraform’s local provider to create two files:

1. student\_info.txt → should contain your name, course, and current date.
2. config.json → should contain fixed JSON data (project, status, version).

**Bonus:** Use random provider to generate a nickname and add it inside student\_info.txt.

**Solution :**

**Required Providers**

* **local -** for creating files
* **random -** for generating random nicknames
* **time -** for getting current date

>> Under the “required\_providers” block , the source and version of the provider is added

**main.tf**

# Terraform configuration

terraform {

required\_providers {

local = {

source = "hashicorp/local"

version = "2.4.0"

}

random = {

source = "hashicorp/random"

version = "3.5.1"

}

time = {

source = "hashicorp/time"

version = "0.9.1"

}

}

}

### Here the resource “random\_pet” is called.

We can use other resources like random\_string / random\_byte etc , but those would not provide a meanigful name as a word.

‘length’ can be any number from 1 and defines the number of words the random name is required of.

‘seperator’ is an optional variable. By default ‘-’ is considered and is used as the seperator of the random name words generated.

resource "random\_pet" "student\_nickname" {

length = 3

}

# Get current timestamp

resource "time\_static" "current\_time" {}

# Create student\_info.txt file

#time\_static.current\_time.rfc3339 - RFC3339 is a standard format that looks like:

#2024-01-15T14:30:45Z

#│ │ │ │ │ └── Z = UTC timezone (Greenwich Mean Time)

#│ │ │ │ └──── 45 seconds

#│ │ │ └────────── 30 minutes

#│ │ └──────────── 14 hours (2 PM)

#│ └──────────────── 15th day

#└────────────────────── January 2024

resource "local\_file" "**student\_info**" {

filename = "student\_info.txt"

content = <<-EOT

Name: Rajesh Bhaskaran

Course: Terraform Assignment

Current Date: ${time\_static.current\_time.rfc3339}

Nickname: ${random\_pet.student\_nickname.id}

EOT

}

# Create config.json file

resource "local\_file" "config\_json" {

filename = "config.json"

content = jsonencode({

project = "Terraform Assignment"

status = "completed"

version = "1.0.0"

created = time\_static.current\_time.rfc3339

})

}

# Output the generated values

output "generated\_nickname" {

value = random\_pet.student\_nickname.id

description = "The randomly generated nickname"

}

output "current\_timestamp" {

value = time\_static.current\_time.rfc3339

description = "The current timestamp"

}

output "files\_created" {

value = [

local\_file.student\_info.filename,

local\_file.config\_json.filename

]

description = "List of files created"

}

Snapshot of the code tried in Visual Studio Code

A screen shot of a computer

AI-generated content may be incorrect.

terraform init

A computer screen with white text and green text

AI-generated content may be incorrect.

**terraform plan**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**terraform apply**

**A screenshot of a computer program

AI-generated content may be incorrect.**