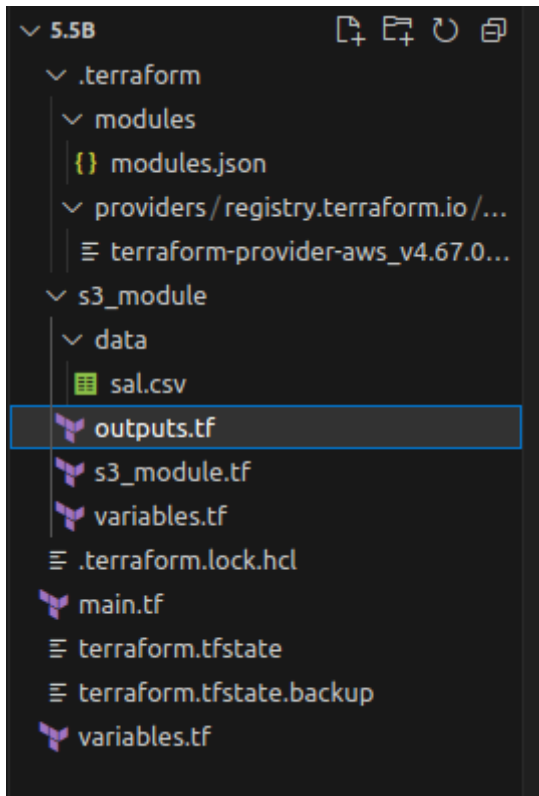ASSIGNMENT 5.5b

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1) folder structure

2) main.tf

```
1    terraform {
2      required_providers {
3        aws = {
4          source  = "hashicorp/aws"
5          version = ">= 3.20.0"
6        }
7      }
8    }
9
10   provider "aws" {
11     # profile = var.aws_tf_profile
12     region  = var.region
13   }
14
15   module "s3_module" {
16     source      = "./s3_module"
17     bucket_name = var.bucket_name
18   }
19
20   output "s3_bucket_id" {
21     value = module.s3_module.s3_bucket_name
22   }
23
```

3) in varaible.tf define the variables

```
variables.tf
1    variable "region" {
2      description = "AWS Region"
3      default = "us-east-1"
4    }
5
6
7    # S3
8    variable "bucket_name" {
9      description = "AWS S3 bucket name"
0      default = "huzaifa-ali-bucket"
1    }
```

4) making s3 bucket resource and empty directory

```
ule >  s3_module.tf
resource "aws_s3_bucket" "s3_module" {
    bucket = var.bucket_name
}
resource "aws_s3_object" "folder" {
    bucket = "${aws_s3_bucket.s3_module.id}"
    key     = "/day2/IaC/"
    source = "/dev/null"
}
```

5) output.tf

```
ule >  outputs.tf
output "s3_bucket_name" {
  description = "AWS S3 bucket name"
  value = aws_s3_bucket.s3_module.id
}
```
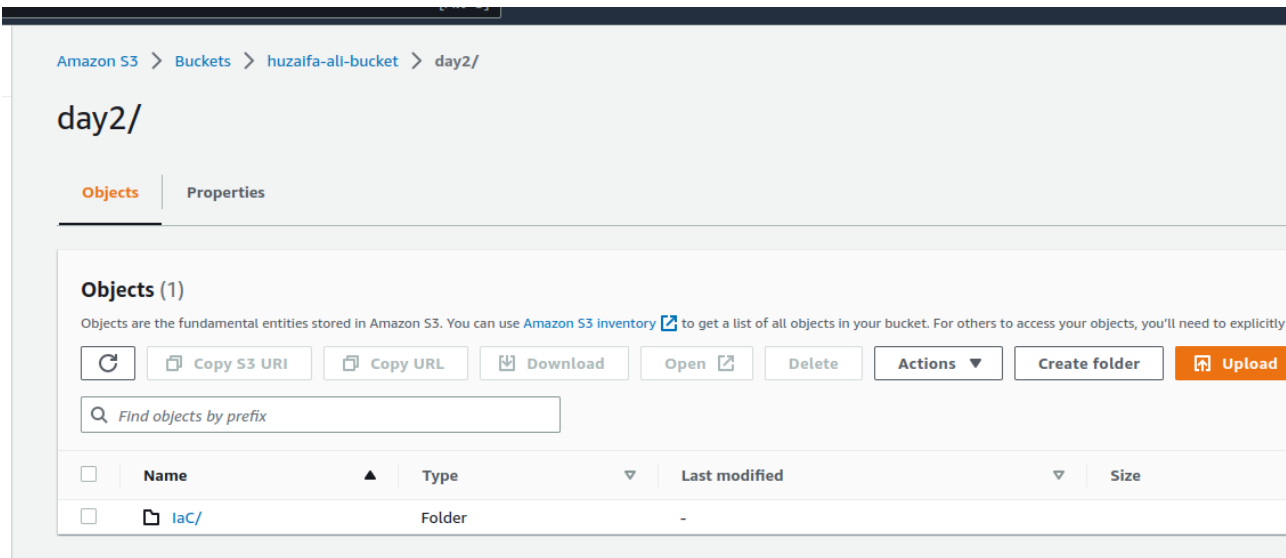
6) terraform apply

```
   Enter a value: yes

module.s3_module.aws_s3_bucket.s3_module: Creating...
module.s3_module.aws_s3_bucket.s3_module: Creation complete after 5s [id=huzaifa-ali-bucket]
module.s3_module.aws_s3_object.folder: Creating...
module.s3_module.aws_s3_object.folder: Creation complete after 0s [id=/day2/IaC/]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Outputs:

s3_bucket_id = "huzaifa-ali-bucket"
```

9) display in amazon

8) terraform destroying