In-Class Activity: Creating AWS S3 Buckets with Terraform

Task Requirements:

1. Create 4 Private S3 Buckets:

- Use Terraform to create 4 private S3 buckets in AWS.
- Ensure that no buckets have public access enabled.

2. **Dynamic Configuration**:

- Avoid any hardcoding in your Terraform files.
- All configuration values (bucket names, region, student id, etc.) should come from tfvars file to maintain flexibility.

3. Looped Resource Plan:

 Use looping constructs (e.g., "for_each" or "count") to create the S3 buckets in a single resource block.

Note: There should not be individual resource blocks for each bucket.

4. Required Files:

- Organize your configuration into the following four files:
 - main.tf: Define the S3 bucket resources.
 - provider.tf: Set up the AWS provider and configure authentication.
 - variables.tf: Define input variables for your configuration.
 - vars.tfvars: Specify values for the variables.

5. **Provider Configuration**:

- In "provider.tf", configure AWS authentication using AWS Secret key and AWS Access key and AWS Authentication Token.
- Set the AWS region to us-east-1.

6. Terraform State Management:

 Store the Terraform state file locally on your laptop instead of using a remote backend.

Bonus Challenge:

• Enable **versioning** on all buckets by updating the main.tf configuration.