TERRAFORM

```
JenkinsFile:
      pipeline {
  agent any
  environment {
     // Ensure that AWS credentials are available as environment variables
                                 = credentials('aws-terraform-credentials') // Reference
     AWS ACCESS KEY ID
your AWS credentials ID in Jenkins
     AWS SECRET ACCESS KEY = credentials('aws-terraform-credentials')
     AWS DEFAULT REGION = 'us-east-1' // Specify your AWS region
  }
  stages {
     stage('Clone Repository') {
       steps {
          script {
            // Clone the repository
            // Using Git credentials if the repository is private
            git url: 'https://github.com/Krupa2003/terraformassign.git', branch: 'main'
            // Print directory listing to verify files
            sh 'ls -la'
          }
       }
     }
     stage('Terraform Init') {
       steps {
          script {
            // Ensure Terraform init is run in the correct directory
            // If Terraform files are in the root of the repository, this is sufficient
            sh 'terraform init'
          }
     }
     stage('Terraform Plan') {
       steps {
```

```
script {
             // Plan the infrastructure
             sh 'terraform plan'
          }
       }
     }
     stage('Terraform Apply') {
        steps {
          script {
            // Apply the Terraform configuration
            // Use the `-auto-approve` flag to skip the confirmation prompt
             sh 'terraform apply -auto-approve'
          }
       }
    }
  post {
     always {
       // Always clean the workspace after execution to avoid conflicts in future builds
       cleanWs()
     }
     success {
       // Notify on success, if necessary
       echo "Terraform execution completed successfully."
     }
     failure {
       // Handle failure, possibly notify through Slack, email, etc.
       echo "Terraform execution failed."
     }
  }
}
```

Output:



