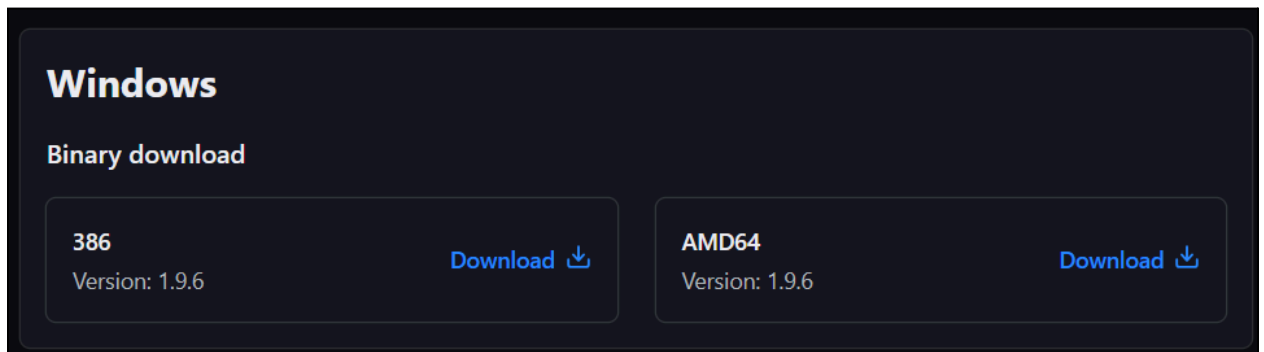Name: Divesh Lulla   Class: D15_C   Roll no: 31
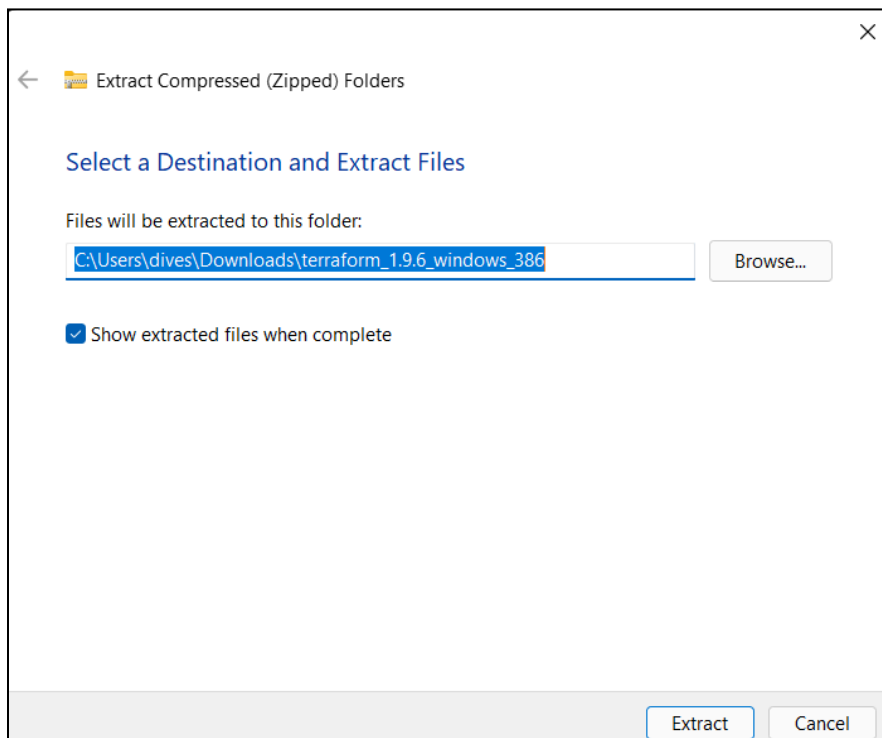
Experiment 5

Aim: To understand the terraform lifecycle, core concepts/terminology and install it on Linux and windows.
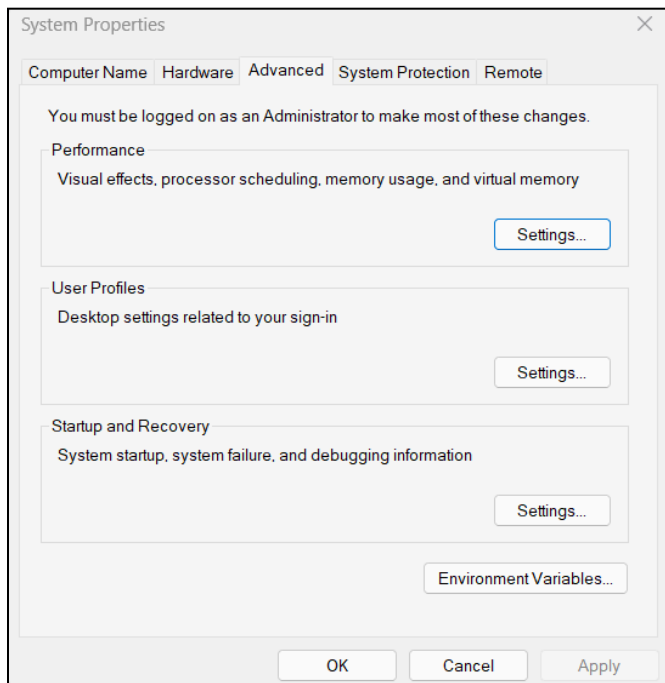
Step 1: Go to the browser and https://developer.hashicorp.com/terraform/install paste this link it will redirect you to downloading of the terraform.

Windows

Binary download

386 Version: 1.9.6	Download ⬇	**AMD64** Version: 1.9.6	Download ⬇

Step 2: After the zip file is downloaded make a folder named terraform in the C drive and then go to the location where the zip file was downloaded click on it and select the Extract files option.

Extract Compressed (Zipped) Folders

Select a Destination and Extract Files

Files will be extracted to this folder:

C:\Users\dives\Downloads\terraform_1.9.6_windows_386   Browse...

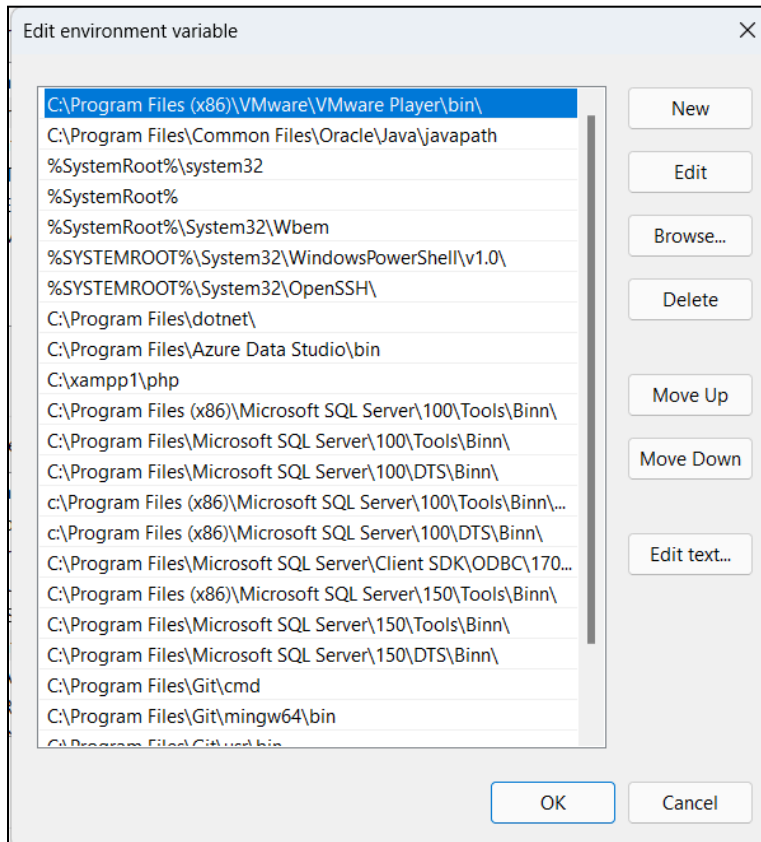☑ Show extracted files when complete

Extract   Cancel

Step 3: Go to the system properties, click on environment variables.

Step 6: Here double click on the path. A new window will appear.
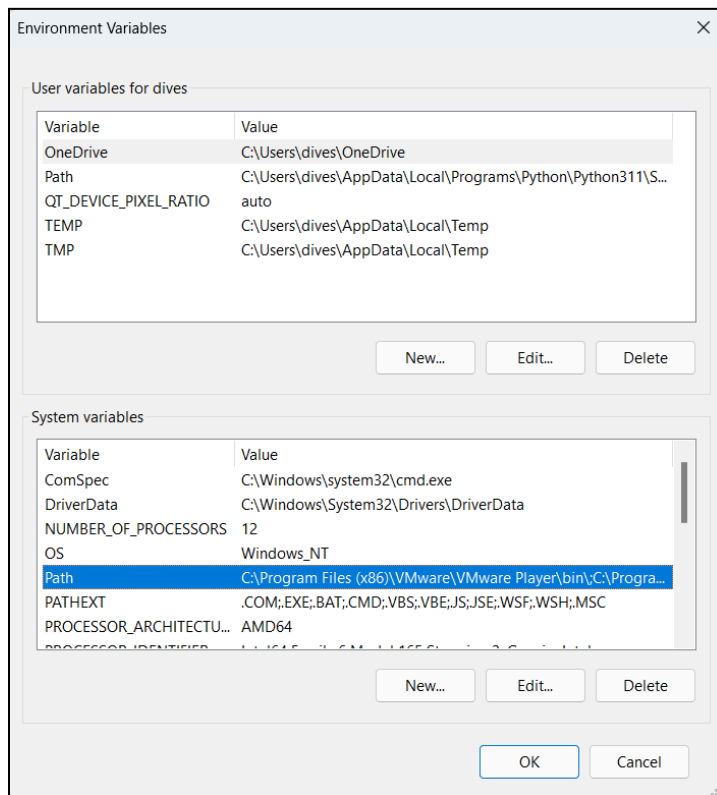
Step 7 : Click on new and paste the path in it then click on ok.

Edit environment variable   ✕

C:\Program Files (x86)\VMware\VMware Player\bin\	New
C:\Program Files\Common Files\Oracle\Java\javapath	
%SystemRoot%\system32	Edit
%SystemRoot%	
%SystemRoot%\System32\Wbem	Browse...
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\System32\OpenSSH\	Delete
C:\Program Files\dotnet\	
C:\Program Files\Azure Data Studio\bin	
C:\xampp1\php	Move Up
C:\Program Files (x86)\Microsoft SQL Server\100\Tools\Binn\	
C:\Program Files\Microsoft SQL Server\100\Tools\Binn\	Move Down
C:\Program Files\Microsoft SQL Server\100\DTS\Binn\	
c:\Program Files (x86)\Microsoft SQL Server\100\Tools\Binn\...	
c:\Program Files (x86)\Microsoft SQL Server\100\DTS\Binn\	
C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170...	Edit text...
C:\Program Files (x86)\Microsoft SQL Server\150\Tools\Binn\	
C:\Program Files\Microsoft SQL Server\150\Tools\Binn\	
C:\Program Files\Microsoft SQL Server\150\DTS\Binn\	
C:\Program Files\Git\cmd	
C:\Program Files\Git\mingw64\bin	
C:\Program Files\Git\usr\bin	

OK   Cancel

Step 8 : After this click on the search bar and open windows shell and search the following command.

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> terraform
Usage: terraform [global options] <subcommand> [args]

The available commands for execution are listed below.
The primary workflow commands are given first, followed by
less common or more advanced commands.

Main commands:
  init          Prepare your working directory for other commands
  validate      Check whether the configuration is valid
  plan          Show changes required by the current configuration
  apply         Create or update infrastructure
  destroy       Destroy previously-created infrastructure

All other commands:
  console       Try Terraform expressions at an interactive command prompt
  fmt           Reformat your configuration in the standard style
  force-unlock  Release a stuck lock on the current workspace
  get           Install or upgrade remote Terraform modules
  graph         Generate a Graphviz graph of the steps in an operation
  import        Associate existing infrastructure with a Terraform resource
  login         Obtain and save credentials for a remote host
  logout        Remove locally-stored credentials for a remote host
  metadata      Metadata related commands
  output        Show output values from your root module
  providers     Show the providers required for this configuration
  refresh       Update the state to match remote systems
  show          Show the current state or a saved plan
  state         Advanced state management
  taint         Mark a resource instance as not fully functional
  test          Execute integration tests for Terraform modules
  untaint       Remove the 'tainted' state from a resource instance
  version       Show the current Terraform version
  workspace     Workspace management

Global options (use these before the subcommand, if any):
  -chdir=DIR    Switch to a different working directory before executing the
                given subcommand.
  -help         Show this help output, or the help for a specified subcommand.
  -version      An alias for the "version" subcommand.
PS C:\Windows\system32>
```

Step 9 : Perform terraform -v command to check terraform is installed or not.

```
PS C:\Windows\system32> terraform -v
Terraform v1.9.6
on windows_amd64
PS C:\Windows\system32>
```