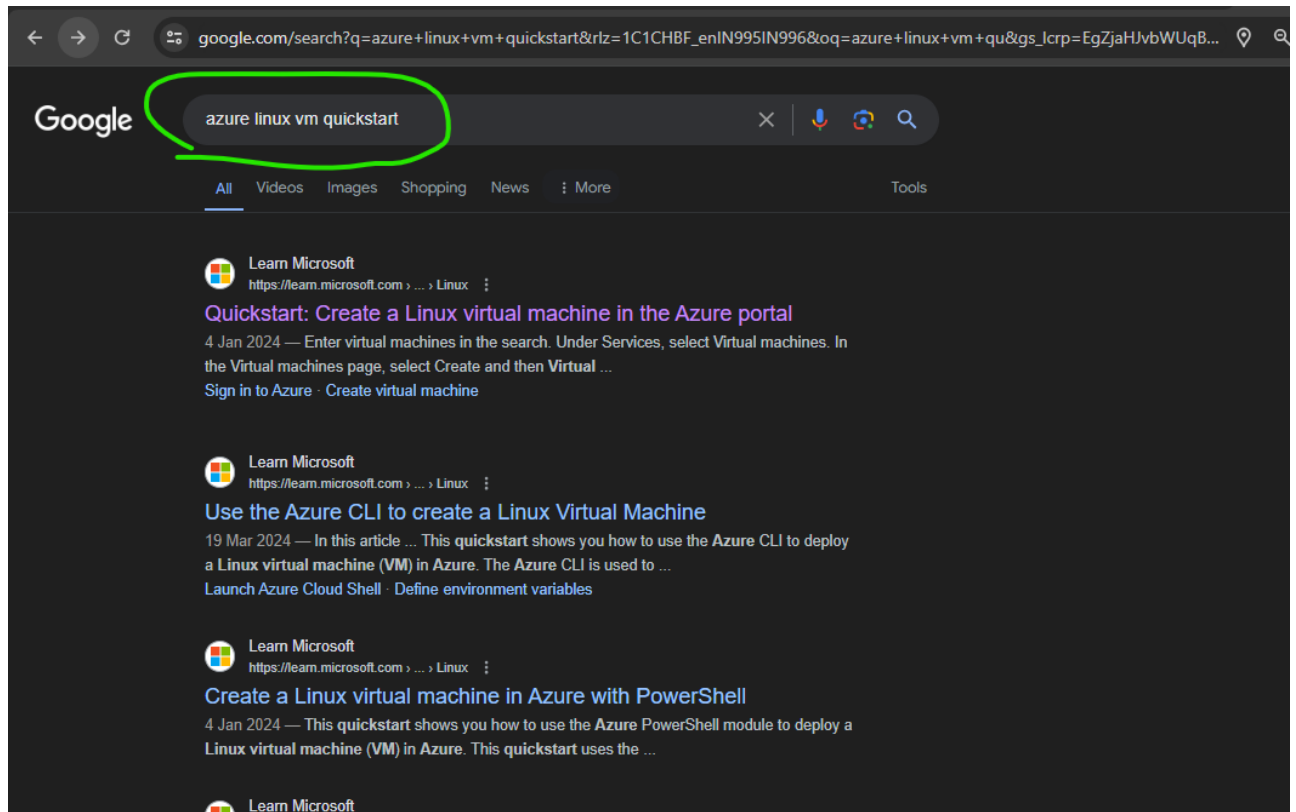# Application

- Types of Applications
  - Web Application
  - Desktop Applications
  - Command line Applications
- Cloud hosts backend applications i.e. Web Applications
- Types of Web Applications
  - Web sites/Web Apps
  - Web APIs
- Website/WebApp: Generally Web applications require some server components (Apache/IIS/Nginx/tomcat/asgi/wsgi) to respond to requests
  - Examples:
    - Bookmyshow
    - linked in
- Web APIs: These are also web applications which respond to requests in terms of functionality not by delivering web pages

Practice Dotnet Application

- Code of Dotnet Application Refer Here

- This application is developed in .net core 8

- This application can be executed on windows, linux instances

- To deploy this application we have following possibilities

  - IaaS:
    - Create a windows or linux virtual machine
    - install dotnet
    - take the published output and run the application (deploy)
  - PaaS:
    - Create a .net 8 platform
    - deploy the application

- AWS:

  - IaaS:
    - EC2
  - PaaS:
    - Elastic Beanstalk

- Azure:

  - IaaS:
    - Virtual machines
  - PaaS:
    - Azure App Service

Lets deploy this application in Azure VM

- Azure Virtual Machine Creation: Refer Here

- azure linux vm quickstart

- Installing dotnet 8 on ubuntu

- We have tried deploying the app in azure app service which was convinient, lets dive deeper into that