DAY 1

FullStack development

- front end + middle layer + data layer Web site + web services + database management

online shopping application using .NET

- Database:
    - MySQL + local database (local sql server)
- Business logic :
    - Product catalog logic
    - Shopping cart
    - order proccesing
    - Payment and billing
    - Authentication and Authorization
    - shipment (Delivery)
- Service layer:
    - Product Catalog service
    - Shopping cart service
    - order proccesing service
    - Payment process and billing service
    - Authentication service
    - Authorization service
    - shipment (Delivery) service

light weight , business logic accessed by via HTTP request REST ful web services

- Web Site:
    - web user interface + online web application management
    - web pages + validation + state management, web security, caching, personalization, multilingual web, etc..
    - Responsive UI

Baby step Learning:

- Hello world using Visual Studio.NET
- learn basics of C# Progtamming
- Learn Visual studio .NET Application Development Process

Rules to create project

- Launch VS IDE
- create .NET Framework Console Application
- Start working with Project by modifying or adding C# code

Console Class

- Two static major fucntion
  - WriteLine,ReadLine

```
Console.ReadLine("hello world");
Console.WriteLine();                    2 / 2
```

- Everything in C# is defined within namespace
- Each class should be defined in namepsace.
- Class can have static and nonstatic methods.
- Entrypoint function main is alawys methods.
- Command Arguments are always access throuhth strign[] args.
- public,private,protected and internal aree acccess specifiers in C#.
- Class can have overloaded ctor.
- class expose private data members to outside using member functionss as well as through properties.
- Properties always encapuslate private data members of instance.
- Properties can readonly or writeonly as well.
- It is good practice to wirte new class in seperate file.
- this keyword in C# represent self refrence of an instance.
- value is inbuilt keyword in C#