Why do we need dotnet framework ?

OS

MS Dos

MS DOS > operating system , character based interface

Copy file1 file2

Copy con

Ren oldname newname

Windows > Graphical Interface

Languages > C , C++ , Pascal , Basic , COBOL , Foxpro

character based interface

C++ > Visual C++ ,

Foxpro > Visual Foxpro,

Basic > Visual Basic

VB , C++ > No

C++ > VB > No

They combined multiple languages under one framework

* DotNet Framework

Combined multiple languages > DotNet Framework

Framework > It’s a collection of classes , libraries , etc.

What are the benefits of DotNet Framework

1. Supports multiple languages
2. It gives you lots of inbuilt classes , libraries

Components of DotNetFramework

CLR > Common Language Runtime > Runtime environment for DotNet Pragrams

Managed Code > Code which is understood and managed by CLR

Unmanaged Code > Code which is not understood and not managed by CLR

CTS > Common Type System

CLS > Common Language Specification

CLR performs lots of functions

1. Memory allocation
2. Garbage Collection
3. Type Safety
4. Code Compilation

Compiler > Translation of code from one language to other language

Compilation in other languages happens in 1 step

Compilation in DotNet happens in 2 steps











