**Programming paradigm OOP**

SRP, DRY, SoC, Low Coupling, High Cohesion

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**C#**

1.1 System.Object

1.2 Extended type system

2 Type security (strongly typed)

3 IL

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**.net framework**

Core – framework - technologies

mscoree.dll (CTS-CLS-CLR)

Assembly

1 Manifest

2 Module

2.1 Metadata

2.2 IL

3 Resources

Weakly/strongly named assemblies

JIT compiler

System domain

CLR features

1 Class loader ( EEclass, Method Slot Table)

2 MSIL-to-native

3 Code Manager

4 Garbage Collector

5 Exception Manager

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**TYPES**

Object - value type / reference type

Value (int... , struct, enum, nulleble)

Reference (string, class, interface, delegate, array)

Boxing/unboxing

Constant, readonly

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***class***

1 data

1.1 field

1.2 constant

2 function

2.1 constructors

2.2 properties

2.3 indexers

2.4 methods

2.5 events

2.6 operators

2.7 finalizers

**methods**

method call

stack frame

evaluation stack

overload method

params[]

optional parameters

named arguments

out & ref parameters

partial class & methods

static methods

virtual/abstract method