

.NET > C#.NET > OOP

Introduction to OOP using C#.NET

- by Harsha Vardhan

What is OOP?

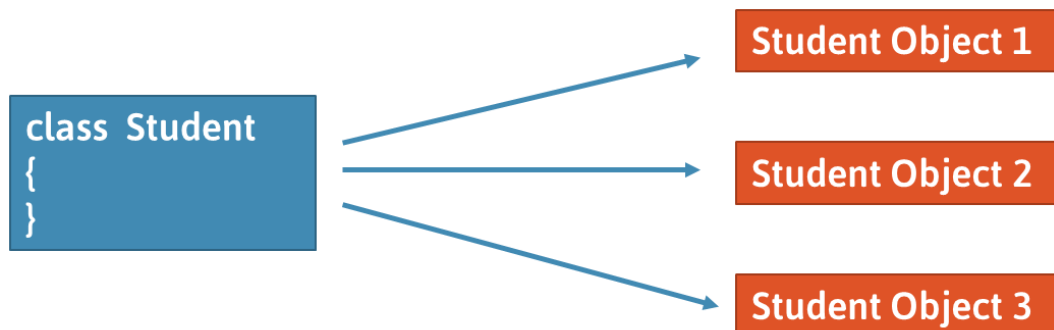
- Object Oriented Programming
- Programming Model for Scalable Applications
- Data manipulation depends on the objects
- Used in most popular languages such as Java, Python, JavaScript, C++ etc.
- **Advantages:**
 - Modularity
 - Re-usability

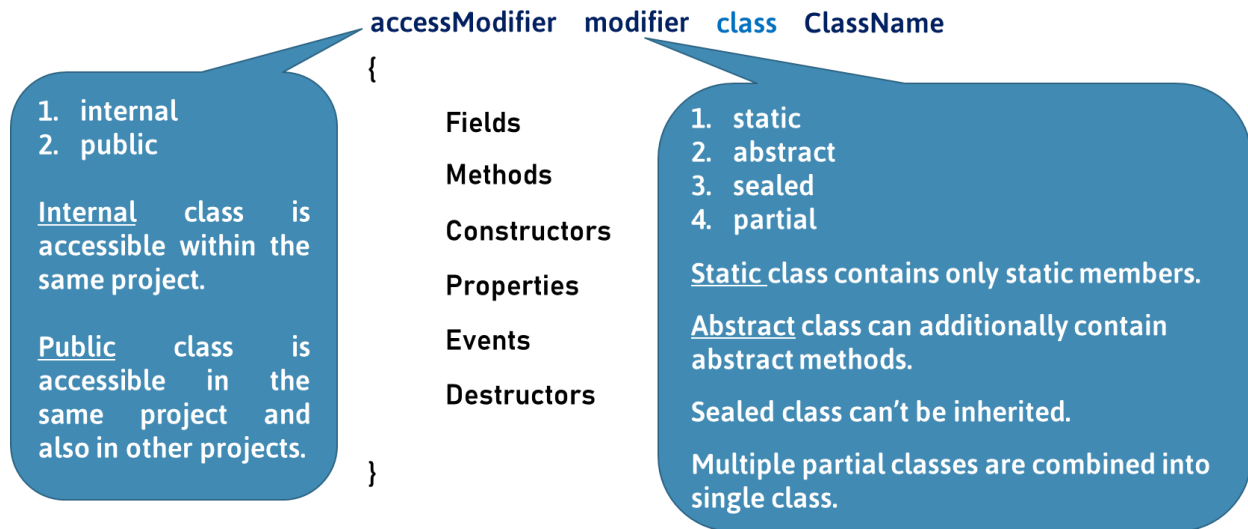
Steps for OOP

- Creating classes (models).
- Creating objects (instances).

Class

- Model / Blue-Print / Structure of Objects.
- Defines list of members (fields and methods) of similar objects.
- Objects can be created based on class.





Object

- A memory unit that stores fields (in memory).
- Represents a physical person / thing.
- Created based on a class.
- Reference variable refers to the object.



Creating Object

1 Create Reference Variable:

```
ClassName referenceVariableName;
```

2 Create Object and Store its reference into the Reference Variable:

```
referenceVariableName = new ClassName( );
```