SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

COURSE NAME : 23CSB101 & Object Oriented Programming

I YEAR/ II SEMESTER

UNIT – I INTRODUCTION TO OOP & JAVA

Topic: Method & Access Specifiers

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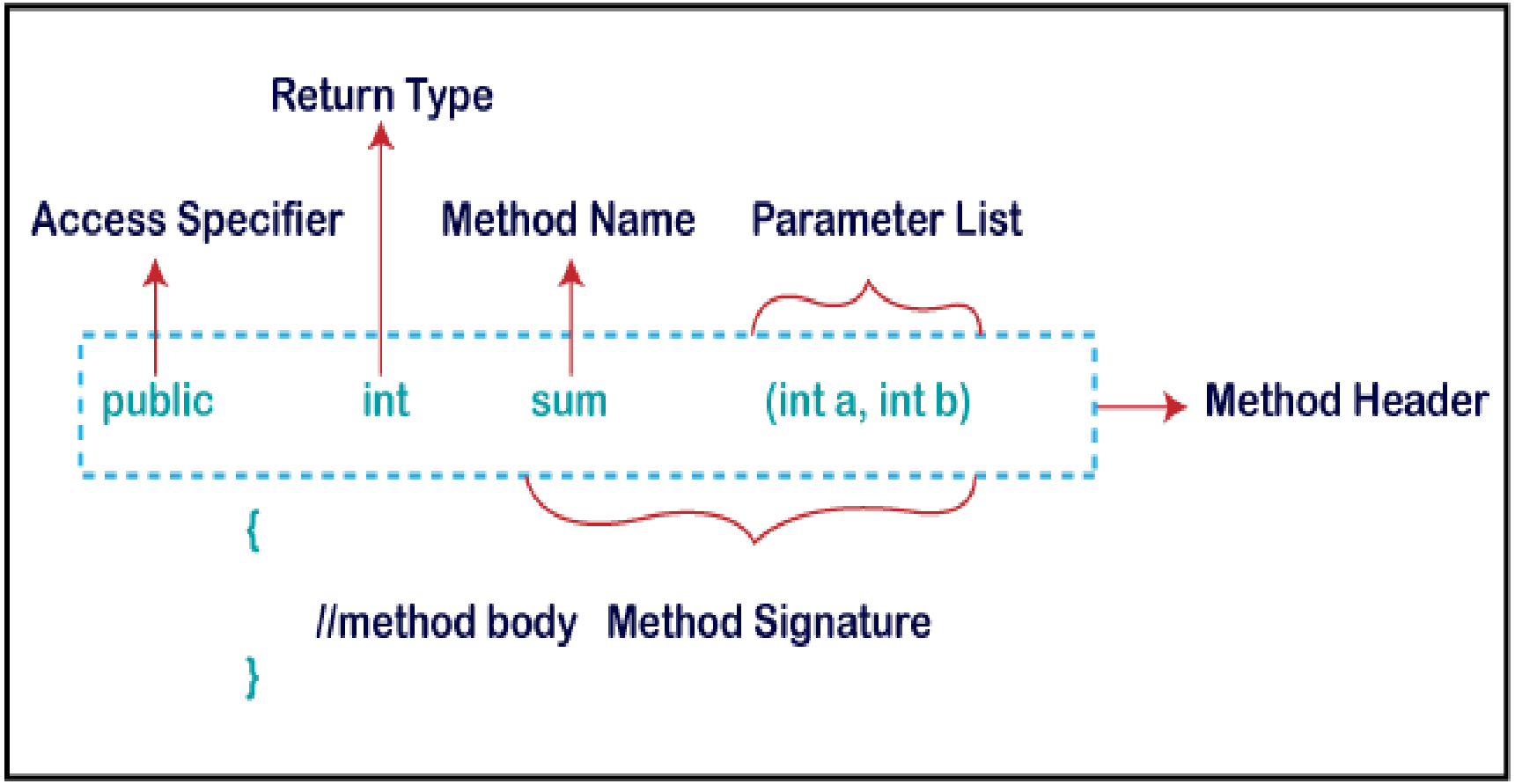
Method

- A method is a block of code or collection of statements or a set of code grouped together to perform a certain task or operation
- It is used to achieve the reusability of code
- We write a method once and use it many times
- We do not require to write code again and again
- It also provides the easy modification and readability of code, just by adding or removing a chunk of code
- The method is executed only when we call or invoke it

Method Declaration

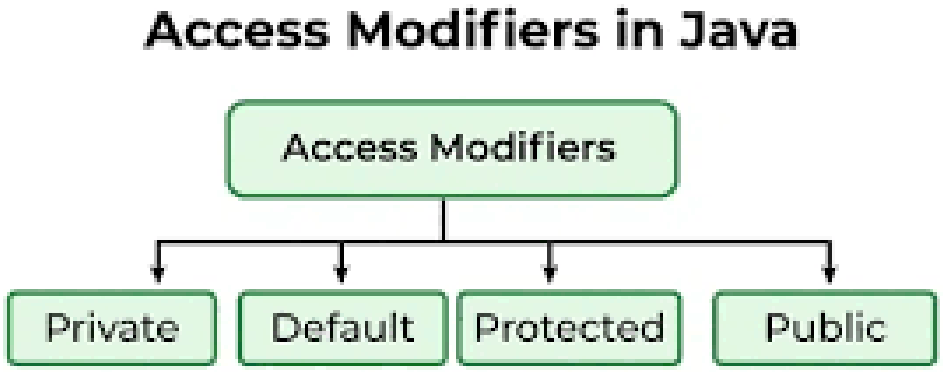


Method Types

- Predefined Method
  - method that is already defined in the Java class libraries is known as predefined methods
- User-defined Method
  - method written by the user or programmer

Access specifiers

- Access specifier or modifier is the access type of the method
- Java provides four types of access specifier



Access Modifiers

Modifier	Class	Package	Subclass	Global
Public	✓	✓	✓	✓
Protected	✓	✓	✓	✗
Default	✓	✓	✗	✗
Private	✓	✗	✗	✗

Access specifiers

- Access specifier or modifier is the access type of the method
- Java provides four types of access specifier
- **Public:** The method is accessible by all classes when we use public specifier in our application.
- **Private:** When we use a private access specifier, the method is accessible only in the classes in which it is defined.
- **Protected:** When we use protected access specifier, the method is accessible within the same package or subclasses in a different package.
- **Default:** When we do not use any access specifier in the method declaration, Java uses default access specifier by default. It is visible only from the same package only.

References

- Java : the complete Reference (Eleventh Edition), Herbert Schildt, 2018.


Thank You!