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Polymorphism (Method Overloading) in Java

=> Polymorphism :-

- > Poly (many) + Morhism (forms, structure)
- > Real world example : sound, water, many brand clothes in one shop, person, single institute has multiple trainer etc
- > Advantage :- It provides the flexibility to develop an application i.e. it allows us to perform a single task by different ways.
- > Types of Polymorphism :-
 1. Compile Time Polymorphism
 2. Runtime Polymorphism

=> Compile Time Polymorphism :-

- > It is also known as Static Polymorphism or Early Binding

-> If the polymorphism is achieved at compile time then it is compile time polymorphism

-> Compile Time Polymorphism can be achieved by 2 ways :-

1. Method Overloading
2. Operator Overloading (is not supported in java except + symbol)

=> Runtime Polymorphism :-

-> It is also known as Dynamic Polymorphism or Late Binding

-> If the polymorphism is existed at runtime then it is known as Runtime Polymorphism

-> Runtime Polymorphism can be achieved by "Method Overriding"

=> Method Overloading :-

-> The process of compiler trying to resolve the method call based on reference type is known as method overloading

-> Rules for method overloading :-

1. Same name
2. Within same class
3. Different parameters

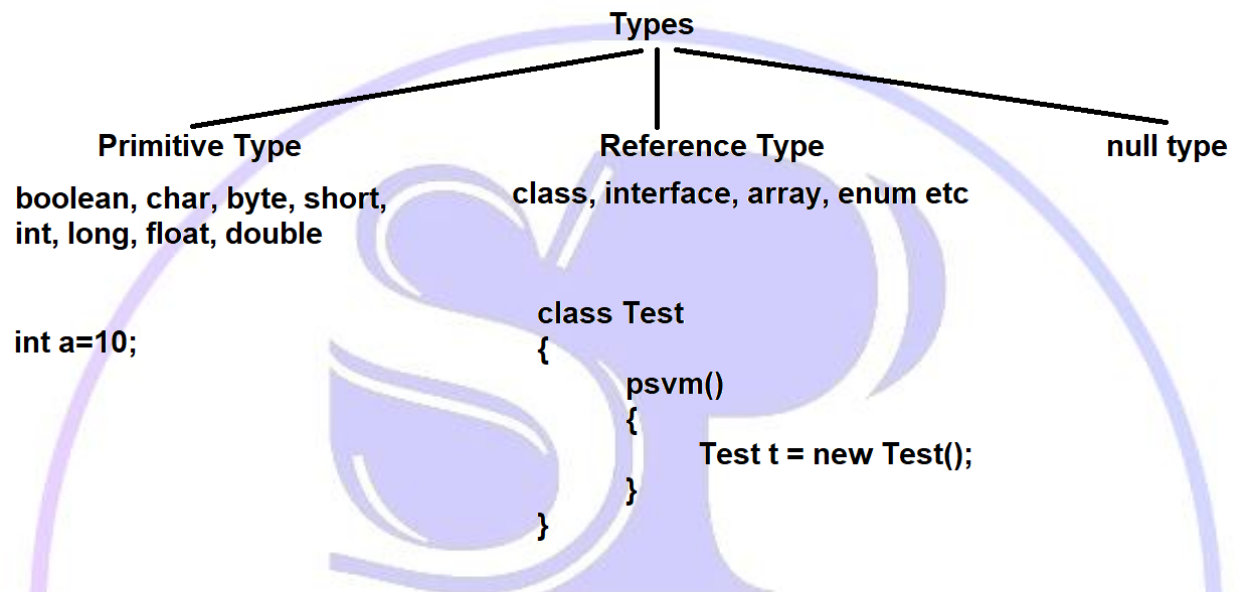
-> No of parameters

-> Type of parameters

-> Sequence of parameters

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What is reference type ?



What is parameter and argument ?

```
class Test
{
    void show(int a)
    {
        //coding
    }
    public static void main(String[] args)
    {
        Test t=new Test();
        t.show(20);
    }
}
```

Parameter (points to `int a`)

Arguments (points to `20`)

Interview Questions :-

1. Operator Overloading is not supported in java but + operator is overloaded

-> Operator Overloading concept is achieved only by java designers but it cannot be achieved by developers like us.

2. What is difference between Compile Time Polymorphism & Runtime Polymorphism

3. What is varargs

4. Can we overload main method -> Yes

5. Can we overload constructors -> Yes

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