

Day 43

16/04/2025

method overloading

* it's allows multiple method to have the same name but different parameters

eg:-

```
class Dog {  
    public voidString bark() {  
        return woof;  
    }  
    public String bark(int num) {  
        for (int i = 0; i < num; i++) {  
            return woof;  
        }  
    }  
}
```

* we have same parameters name with different data type.

Optional parameter

```
public String bark (int num = 1)
```

```
{  
    String s = "";  
    for (i = 0; i < num; i++) {
```

↓
default
value

```
        s = s + "woof";
```

```
    }
```

```
    return s;
```

↓
it should
always start

```
}
```

```
public String bark (String name, int num = 1)
```

```
{
```

```
    String s = name;
```

```
    for (i = 0; i < num; i++) {
```

```
        s = s + "woof";
```

```
    }
```

```
    return s;
```

```
}
```

```
public List<String> data () {
```

↓
To return List type.

/// -> To make summary template.

/// < summary > ->

///

/// < /summary >

/// < param name = "name" > < /param >

/// < returns > < /returns >

///

Optional parameter should always be last.
Public string bark (string name, int num = 1)

named parameter:

Dog Sound = new Dog();

Sound.bark (name: "sam", num: 2);

named parameters

We can use (:) to call repeating parameter using the parameter name.