

Constructors

→ Constructor is a block similar to a method, having same name as that of class name.

Ex: Class test

Void test () (this is not a constructor)
Because it has void return type.

- Constructor's does not have any return type not even void.
- only public, protected, default and private modifiers are applicable for constructors.
- J+ executes automatically when we create an object. J+ is like special type of method.

Why we need constructor. (use of constructor)

- let's see this by example.
- If I want to create system of employee details.

Case-1: it is initialize object by using reference variable

```
Class Employee {
    String name = "Akshay";
    Int emp_ID = "1812";
}
```

P.S.V.M (String [] args) {

```
Employee E1 = new Employee();
Employee E2 = new Employee();
```

}

}

→ Here Employee E1 has 'Akshay' name and '1812' Emp_ID and E2 also has same.

Case-2 - Object Initialization by using object method.

Class Employee {

String name;

Int Emp_ID;

P.S.V.M (String [] args) {

```
Employee E1 = new Employee();
```

```
E1.name = "Akshay";
```

```
E1.Emp_ID = "108";
```

}

→ Case-2 - ~~in need~~ needs Here we need to give all details for all objects.

Case-3 - Object Initialization by using constructor.

→ By using constructor parameterised constructor, it is the most appropriate way.

* Constructor is not used to create an object. Constructor is used for initialize an object. & Constructor is not only way to initialize an object, but it is the appropriate way to initialize an object.

* Types of Constructor.

1. Default Constructor (with no argument)
2. User defines (No argument) constructor.
3. Parametrized constructor.

Default	User-defined	Parametrized
→ creates by compiler <u>NOT</u> JVM	→ this is user defined no argument constructor.	→ user defines parameterized constructor.
→ Class test { <div style="border: 1px solid black; padding: 5px; display: inline-block;"> test () { } P.S.V.M (String [] args) { test t = new test(); } }</div>	→ Class test { test () { } P.S.V.M (String [] args) { test t = new test(); } }	→ Class test { test (String name) { } P.S.V.M (String [] args) { test t = new test(); // Not can default constructor because we already create constructor. test t = new test(" "); }
→ If we not create any constructor then only compiler creates it.		