Constructor

It is a member method which has the same name as the class name.

How much space will be taken by an Object will be given by Constructor.

Even if we don't define a constructor, there will be a default constructor for every class.

Public A()→Constructor

- It is a Member Method
- Same Name as Class Name
- Constructor will never return anything [No Return type required].
- It will be used to allocate memory
- It can be also used for initializing your value

Note:

- We cannot call a constructor explicitly like methods.
- Constructor gets called when an object is created

Type of Constructor:

- 1. Default
- 2. Parameterized

Note: Once you define a parameterized constructor and then creating object with Default Constructor, then JVM will not by default provide Default Constructor, that means you must also define Default Constructor first, Otherwise it will throw error.

Example:

Q] Can we have two constructors with same name?

Ans: Yes we can have two constructors with same name, but with different Parameters.

Even more than two Constructors is also possible.

And this concept is called as Constructor Overloading

```
public class Parameterized Constructor {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             A a=new A();
      }
}
class A {
      public A() {
      System.out.println(" In A Constructor"); //Output will be: In A Constructor
      public A(int i) {
             System.out.println(" In A Constructor para");
      }
      public A(int i,double d) {
             System.out.println(" In A Constructor intDouble");
   }
   Constructor Overloading Implicit Conversion:
   Generally We See
class A {
      public A() {
      System.out.println(" In A Constructor");
      public A(int i) {
             System.out.println(" In A Constructor int");
      public A(double d) {
             System.out.println(" In A Constructor Double");
}
   In the above example,
      If we call A(), default constructor gets called.
      ■ If we call A(5), then output In A Constructor int
         If we call A(5.5), then output In A Constructor Double
Now, if A has only two constructors,
class A {
      public A() {
      System.out.println(" In A Constructor");
      }
      public A(double d) {
             System.out.println(" In A Constructor Double");
And A = new A(5);
But it does not have the int constructor, so it will implicitly convert int to double but the vice-versa will throw error
Output: In A Constructor Double
```