

## Constructor->

At the time of object creation the automatically call function is known as **constructor**.

(Jab kisi class ka aap object banate hai to us time automatically call hone vale function ko constructor kha jata hai)

1. Constructor ka name class ka name class ke name jaisa hota hai(class ka name hee hota hai)
2. Ye simple function hote hai jinka koi bhi return type nhi hota hai (like int, float,char,string, double, long koi bhi data type aap use nhi kar sakte hai, jab return type use nhi karenge to aapka constructor kuch return nhi karaga)

3. constructor kaa kaam private data variables ko value assign karne ka hota hai
  4. agar aap koi constructor nhi banate hai to compiler compilation time me default constructor bna leta hai)
- default constructor ko hee non parameterized constructor kahte hai.

agar ek bhi constructor user ne banaya to compiler koi constructor nhi banata hai

Jab bhi object banaoge tab new keyword ka use karna padega class ke name ke sath tabhi constructor function call hoga

example->                      className ObjectName=new ClassName();

## Types of Constructor->

1. Default constructor (non parameterzed constructor bhi kahte hai)
2. parameterized constructor
3. copy constructor
4. constructor overloading(abhi nhi)

## Syntex of constructor

```
class Education{
```

```
public:
int x=10;
int y=90,z=89;
```

```
// i am making constructor
// default constructor
Education(){
}
```

```
// parameterized constructor
Education(int x, int y){
}
```

```
// agar same class ke andar multiple constructor hote hai or har ek constructor alg parameter leta hai to use constructor overloading kahte hai
```

```
};
```

Jab aapki class ke andar ke variable ka name and constructor ke parameter ka name **same** hota hai to us case me **class** ke variable ko **differentiate** karne ke leaye aap **this** keyword use karte hai **this** keyword jis bhi variable ke sath lagega vah variable class vala hoga .

## Destructor->

at the time of object deletion automatically known function is destructor.

Destructor constructor jaise hee hote hai

inka name bhi class ke name jaise hota hai but inke name ke aage aap tild sign(~) lga dete hai

inka kaam **memory free** karna hota hai

destructor kabhi koi bhi parameter receive nhi karte hai inka koi bhi **return** tyoe nhi hota hai or destructor ke andar aap return ka use nhi kar sakte hai

Java me destructor nhi hote hai.