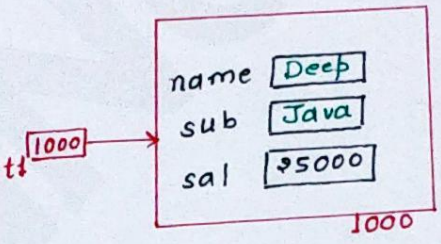
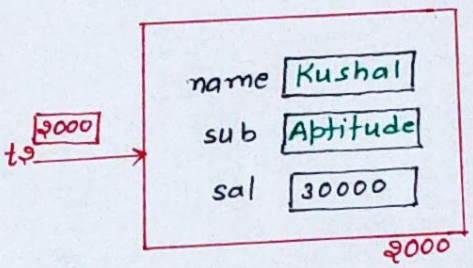
Program without Constructor in Java

```
class Teacher
{
 String name;
 String sub;
 int sal;
void teach()
{
 System.out.println("A teacher teaches");
}
}
class TeacherApp
{
public static void main(String[] args)
{
Teacher t1 = new Teacher();
t1.name = "Deep";
t1.sub = "Java";
t1.sal = 25000;

Teacher t2 = new Teacher();
t2.name = "Kushal";
t2.sub = "Aptitude";
t2.sal = 30000;
}
}
```

Instance variable





Constructor in Java

Java provide us much more efficient way for giving the values for our instance variables which are present inside the object and that is called as constructor.

Name of the constructor is always same as the name of the class.

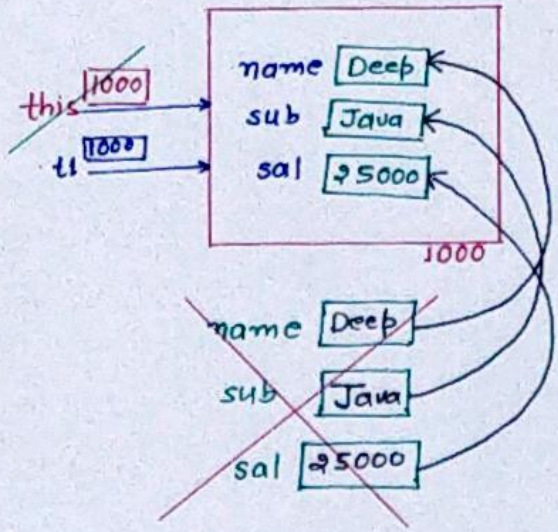
Whatever variable Teacher constructor is accepting are known as local variable.

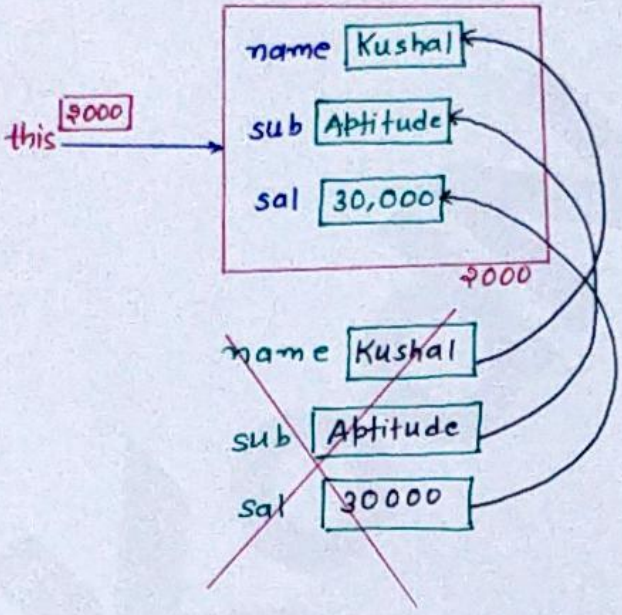
When is constructor going to get called - During the Object creation.

What is the use of a constructor - We can use a constructor to give or set the value for our instance variable.

Program with Constructor in Java

```
class Teacher
{
 String name;
 String sub;
 int sal;
 void teach()
 {
  System.out.println("A teacher teaches");
 }
Teacher(String name, String sub, int sal)   } Local variables
 {
  this.name = name;
  this.sub  = sub;      } Instance variables
  this.sal  = sal;
 }
}
class TeacherApp
{
 public static void main(String[] args)
 {
  Teacher t1 = new Teacher("Deep", "Java", 25000);
  Teacher t2 = new Teacher("Kushal", "Aptitude", 30000);
 }
}
```


this
1000
t1
1000
name
Deep
sub
Java
sal
25000
1000
name
Deep
sub
Java
sal
25000


this
2000
name
Kushal
sub
Aptitude
sal
30,000
2000
name
Kushal
sub
Aptitude
sal
30000