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## Inheritance and constructors in Java

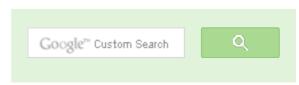
In Java, constructor of base class with no argument gets automatically called in derived class constructor. For example, output of following program is:

### Base Class Constructor Called Derived Class Constructor Called

```
// filename: Main.java
class Base {
  Base() {
    System.out.println("Base Class Constructor Called ");
class Derived extends Base {
  Derived() {
    System.out.println("Derived Class Constructor Called ");
public class Main {
 public static void main(String[] args) {
    Derived d = new Derived();
```

But, if we want to call parameterized contructor of base class, then we can call it using super(). The point to note is base class comstructor call must be the first line in derived class constructor. For example, in the following program, super(x) is first line derived class constructor.

```
// filename: Main.java
```





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```
class Base {
  int x;
 Base(int x) {
   x = x;
class Derived extends Base {
  int y;
 Derived(int x, int y) {
    super(x);
    y = y;
 void Display()
    System.out.println("x = "+x+", y = "+y);
public class Main {
 public static void main(String[] args) {
    Derived d = new Derived(10, 20);
    d.Display();
```

#### Output:

$$x = 10, y = 20$$

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.



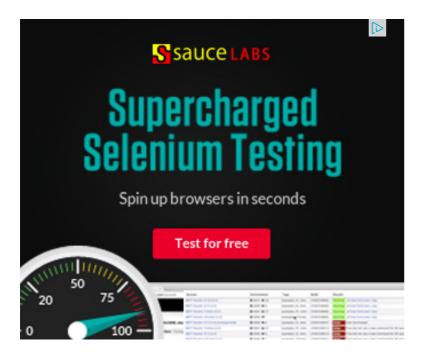
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