```
Dt: 30/12/2020
Inheritance Case-2:
Constructors from the PClass or SuperClass
(i)0-parameter Constructor from the PClass
=>when we have 0-parameter constructor in the PClass then the compiler at compilation stage will add 'super()' to the CClass
Constructor and which is PClass Constructor call.
```

Exp program:

```
class PClass
{
      PClass()
      {
System.out.println("===PClass()===");
      }
class CClass extends PClass
      CClass()
System.out.println("===CClass()===");
      }
class Inheritance7 //MainClass
{
      public static void main(String[] args)
```

```
{
CClass ob = new CClass();
}
```

}

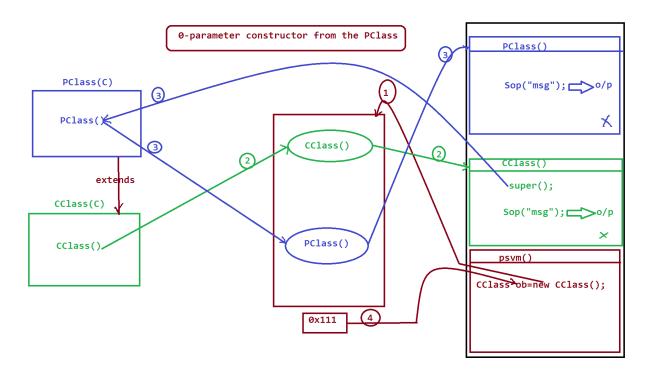
Execution flow of above program:

ClassFiles:

PClass.class

CClass.class

Inheritance7.class



Note:

=>CClass Constructor will come for execution first,this CClass

Constructor will call PClass constructor for execution.

(ii)Parameterized Constructor from the PClass

=>when we have Parameterized constructor within the PClass then we(programmer) must add 'super()' to the CClass constructor to call PClass constructor for execution.

Exp program:

```
class PClass
{
      PClass(int x,int y)
      {
System.out.println("====PClass====");
System.out.println("The value x:"+x);
System.out.println("The value y:"+y);
      }
}
class CClass extends PClass
{
      CClass(int v1,int v2)
      {
            super(v1,v2);//PClass con call
      }
}
class Inheritance8 //MainClass
{
```

```
public static void main(String[] args)
{
CClass ob = new CClass(102,103);//CClass con call
}
```

}

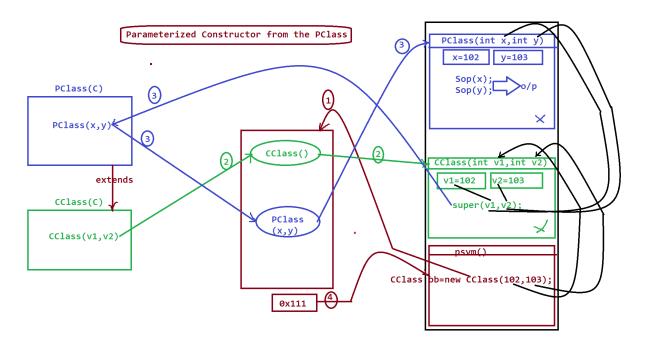
Execution flow of above program:

ClassFiles:

PClass.class

CClass.class

Inheritance8.class



Note:

=>To pass parameters to the Parameterized constructor of PClass,we declare super() to the CClass Constructor to pass parameters.

```
faq:
wt is the diff b/w
 (i)super()
 (ii)this()
(i)super():
 =>super() is used to access the constructors from the PClass.
(ii)this():
 =>this() is used to access the constructors from the Same Class.
Exp program:
class PClass
{
      PClass(int a,int b)
      {
            this(a);
System.out.println("The value b:"+b);
      }
      PClass(int a)
System.out.println("The value a:"+a);
      }
}
class CClass extends PClass
{
      CClass(int a,int b,int c,int d)
      {
```

```
this(a,b,c);
System.out.println("The value d:"+d);
      }
      CClass(int a,int b,int c)
      {
   super(a,b);
System.out.println("The value c:"+c);
      }
class Inheritance9 //MainClass
{
      public static void main(String[] args)
      {
CClass ob = new CClass(11,12,13,14);
      }
}
```