

Java Concept 4

- **Parent class** reference variable **can store** the reference of **Child Class** object , When **Non static overridden** methods called using this **parent class** reference variable then **these methods** are from **Child Class**

```
1 //Parent class
2 class phone
3 {
4     void call()
5     {...}
6 }
7 //Child class
8 class smartPhone extends phone
9 {
10    void call()
11    {...}
12 }
13
14 class JavaConcept
15 {
16     public static void main(String args[])
17     {
18         phone obj = new smartPhone();
19         //child class call() called
20         obj.call();
21     }
22 }
```

```
1 //Parent class reference variable storing the
2 //reference of Child Class object //No Error
3 class Parent {
4     public void Print() {
5         System.out.println("Inside Parent Class");
6     }
7 }
8 class Child extends Parent {
9     public void Print() {
10        System.out.println("Inside Child Class");
11    }
12 }
13 class JavaConcept{
14     public static void main(String[] args) {
15         Parent p_child_obj = new Child();
16         //child class print() called
17         p_child_obj.Print();
18     }
19 }
```

run:

Inside Child Class