Java Concept 17

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

```java
1   class phone
2   {
3     void call()
4     {...}
7     static void callEnd()
8     {...}
11  }
12
13  class smartPhone extends phone
14  {
15    void call()
16    {...}
20    static void callEnd()
21    {...}
24  }
25
26  class JavaConcept
27  {
28    public static void main(String args[])
29    {
30      phone obj =  new smartPhone();
31      //Child class method called
32      obj.call();
33      //Parent class method called
34      obj.callEnd();
35    }
36  }
```

```java
//Parent class
class computer
{
    void ram(String value)
    {
       System.out.println(C.R+"computer Non Static ram : "+value+C.RE);
    }

    static void harddisk(String value)
    {
       System.out.println(C.R+"computer Static harddisk : "+value+C.RE);
    }
}

// Child Class
class laptop extends computer
{
    void ram(String value)
    {
       System.out.println(C.P+"laptop Non Static ram : "+value+C.RE);
    }

    static void harddisk(String value)
    {
       System.out.println(C.P+"laptop Static harddisk : "+value+C.RE);
    }
}


public class JavaConcept
{
   public static void main(String args[])
     {
        computer c = new laptop();
        //When Non static methods called  using this parent class
        //reference variable then these methods are from Child Class
        c.ram("2Gb");
        //When static method called using this parent class
        //reference variable then these methods are from Parent Class
        c.harddisk("1Tb");
     }
}
```

run:
laptop Non Static ram : 2Gb
computer Static harddisk : 1Tb