Call By Value

`CallByValueDemo.java`

```java
package org.studyeasy;

public class CallByValueDemo {
    public void CallByValueExeCase1(int value) {
        System.out.println("Value of variable in the method CallByValueExeCase1 : "+value);
        value = 20;
        System.out.println("Value of variable in the method CallByValueExeCase1 : "+value);
    }
}
```

Declaration Javadoc Problems Console ×
<terminated> Main (8) [Java Application] C:\Users\dinit\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (Feb 5, 2024, 1:29:

```
Value of variable in the method CallByValueExeCase1 : 10
Value of variable in the method CallByValueExeCase1 : 20
```

Main.java

```java
        /*
         * float[] values3 = {10.0f, 25.1252142f, 60};
         * System.out.println(" The value of the array element 0 : "+values3[0]);
         * System.out.println(" The value of the array element 1 : "+values3[1]); //Here
         * 2 at decimal point for the given literal gets //truncated
         * System.out.println(" The value of the array element 2 : "+values3[2]);
         */

        //ForEach Loop
        //ForEachDemo.ForEachExe();

        /*Call By Value Demo*/
        int value = 10;
        CallByValueDemo cbyd = new CallByValueDemo();
        cbyd.CallByValueExeCase1(value);
    }
}
```

Declaration Javadoc Problems Console ×
<terminated> Main (8) [Java Application] C:\Users\dinit\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.ex

```
Value of variable in the method CallByValueExeCase1 : 10
Value of variable in the method CallByValueExeCase1 : 20
```

Whenever we pass a value, the variable reference is never passed only the value is passed. Refer below example. There is no change in CallByValueDemo.java, but there is change in Main.java(The value = 20; will be destroyed after the method is done executing)

```
40
41          /*
42           * float[] values3 = {10.0f, 25.1252142f, 60};
43           * System.out.println(" The value of the array element 0 : "+values3[0]);
44           * System.out.println(" The value of the array element 1 : "+values3[1]); //Here
45           * 2 at decimal point for the given literal gets //truncated
46           * System.out.println(" The value of the array element 2 : "+values3[2]);
47           */
48
49          //ForEach Loop
50          //ForEachDemo.ForEachExe();
51
52          /*Call By Value Demo*/
53          int value = 10;
54          CallByValueDemo cbyd = new CallByValueDemo();
55          cbyd.CallByValueExeCase1(value);
56          System.out.println("Call from the main method : "+value);
57      }
58
59 }
```

 Declaration @ Javadoc Problems Console ×

<terminated> Main (8) [Java Application] C:\Users\dinit\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220

```
Value of variable in the method CallByValueExeCase1 : 10
Value of variable in the method CallByValueExeCase1 : 20
Call from the main method : 10
```