





Declaration: we are just creating a variable (int I;)

Initialization: Assigning some value (I=10;)

Note

Parameterized method

We should never initialize a method parameter at the time of its declaration

void meth1() ----non -para
void meth1(int i, string s)----para
void meth1(int i=1,string s="HI")----in valid

```
void meth1() //NON-Para
                                      void meth4(int a,int b, char c)
                                                                                void meth7(byte b, double d)
                                          //VALID
                                                                                   //VALID
void meth2(int i)
                                      void meth5(String s)
                                                                                void meth8() //NON-Para
      // VALID
                                          //VALID
void meth3(int i=10, String s)
                                      void meth6(String s="Java", float f)
                                                                                void meth9(int i, short s)
                                                                                    // VALID
    //IN-VALID
                                          //IN-VALID
```

```
☑ ClassA.java 

☑ ClassB.java

                                                                                 <terminated> ClassA [Java Application] C:\Program Files'
 1 package com.pack1;
                                                                                 Java is awesome!!!
                                                                                  ava is awesome!!!
 3 public class ClassA
         void meth1()
              System.out.println("Java is awesome!!!");
 9⊕
         public static void main(String[] args)
10
11
             new ClassA().meth1();
12
13
             ClassA aobj=new ClassA();
14
              aobj.meth1();
15
16 }
17
18
19
20
21
22
23
24
                  19:54
```

Inside the parenthesis () we should write the parameters

Main methos is a parameterized method which has one parameter string array void static main(String[] args)

- Q) How to pass values for the method parameters?
- A) We need to initialize a method parameter whenever are calling a method.

```
[J] Lidssm.java X. [J] Lidssb.java
                                                                                    <terminated> ClassA (Java Application) C:\Program Files\Java\jdk-17\bin\javaw.exe (08-Feb-20
  1 package com.pack1;
                                                                                       value : 1000
  3 public class ClassA
         void meth1(int i)
              System.out.println("hi");
 8
              System.out.println("i value : "+i);
 9
100
         public static void main(String[] args)
 11
12
              ClassA aobj=new ClassA();
13
              aobj.meth1(1000);
14
         }
 15 }
16
17
 18
 19
 21
 22
 23
24
```

```
🌶 *ClassA.java 🗴 🖟 ClassB.java
                                                                                 © Console X ■ X ¾
                                                                                 <terminated> ClassA [Java Application]
 2
 3 public class ClassA
                                                                                 25
 4 {
                                                                                 10
 50
        void meth1(int a, String s)// meth4() a=10 s="Hello World"
                                                                                 20
 6
        {
 7
            System.out.println(a+a);
 8
            System.out.println("a");
 9
            System.out.println('a');
                                                                                      Hello World
10
            System.out.println(a);
                                                                                 Java is awesome
11
            System.out.println("s : "+s);
12
130
        void meth2(int a, int b) //main() a=5 b=10
                                                                                 100
14
                                                                                 -5
            System.out.println(a*a);
15
                                                                                 End
16
            System.out.println(b);
17
            new ClassA().meth4("Java is awesome");
            new ClassA().meth3('A', 100);
18
19
            System.out.println(a-b);
20
        void meth3(char c, int a)
218
22
23
            System.out.println(c);
24
            System.out.println('c');
25
            System.out.println(a):
 ■ ※ 後 | 品
                                                                                 Console X
             system.out.printin(b);
                                                                                <terminated> ClassA [Java Application] C:
 17
             new ClassA().meth4("Java is awesome");
                                                                                 Start
             new ClassA().meth3('A', 100);
 18
                                                                                25
 19
             System.out.println(a-b);
                                                                                10
 20
         }
                                                                                 20
 21-
         void meth3(char c, int a)// meth2() c=A a=100
 22
 23
             System.out.println(c);
 24
             System.out.println('c');
                                                                                   : Hello World
 25
             System.out.println(a);
                                                                                 Java is awesome
 26
         }
 27=
         void meth4(String s)// meth2() s="Java is awesome"
 28
                                                                     1 changed line
 29
             new ClassA().meth1(10, "Hello World");
 30
             System.out.println(s);
                                                                                End
 31
         public static void main(String[] args)
 32=
 33
 34
             System.out.println("Start");
 35
             new ClassA().meth2(5, 10);
 36
             System.out.println("End");
 37
 38
 39
```

```
3 public class ClassB
4 {
5=
      void meth1(int x, int y, int z)
      {
6
7
           System.out.println(10);
8
           new ClassB().meth2("Hi", 100);
9
           System.out.println(10+x);
10
           System.out.println(y);
11
           System.out.println(10-z);
12
      void meth2(String s,int num)
130
14
      {
15
           System.out.println(s);
16
           System.out.println(num-20);
17
           System.out.println(num);
18
198
      void meth3(char c, int x, String s)
20
21
           System.out.println(c);
           new ClassB().meth1(5, 10, 6);
22
23
           System.out.println(\times/2);
           System.out.println(30);
14
25
           System.out.println(s);
```

```
[3] Classwijeva [3] Classoijava X
            System. var. primitingy,
11
            System.out.println(10-z);
12
130
        void meth2(String s,int num)
14
15
            System.out.println(s);
16
            System.out.println(num-20);
17
            System.out.println(num);
18
        }
        void meth3(char c, int k, String s)
199
20
21
            System.out.println(c);
22
            new ClassB().meth1(5, 10, 6);
23
            System.out.println(\times/2);
24
            System.out.println(30);
25
            System.out.println(s);
26
        }
27=
        public static void main(String[] args)
28
29
            System.out.println("Start");
            new ClassB().meth3('X', 50, "Hello");
30
            System.out.println("End");
31
32
        }
33 }
24
```