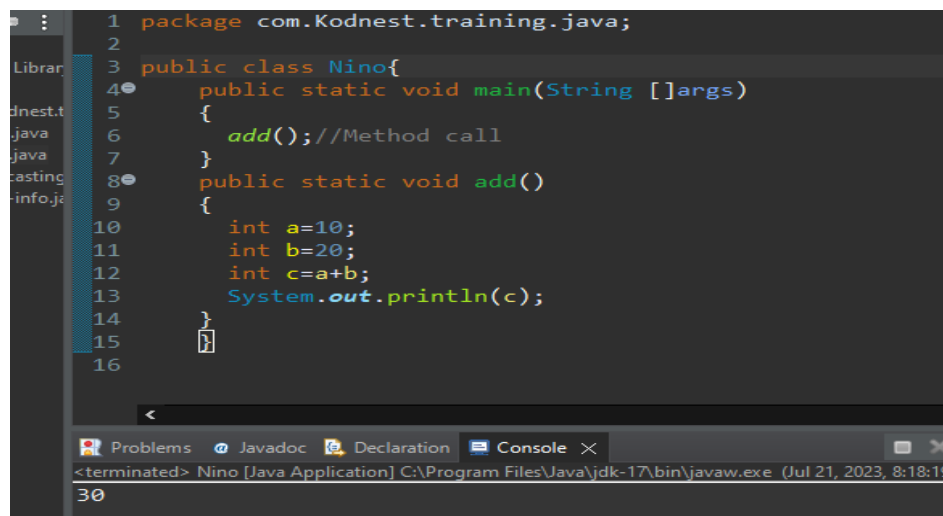


# Types of Methods

Type 1 Method which would not accept any parameter and would not return any value

```
class Demo{  
    public static void main(String []args){  
        add();//Method call  
    }  
    public static void add()  
    {  
        int a=10;  
        int b=20;  
        int c=a+b;  
        System.out.println(c);  
    }  
}
```

**OUTPUT:**

A screenshot of an IDE window. The top pane shows Java code for a class named 'Nino' (though the text above says 'Demo'). The code includes a package declaration 'com.Kodnest.training.java', a class declaration 'public class Nino', a 'main' method that calls 'add()', and an 'add' method that calculates the sum of two integers (10 and 20) and prints the result. The bottom pane shows the console output, which is the number '30'. The IDE interface includes a sidebar on the left with project files, a top toolbar, and a bottom status bar.

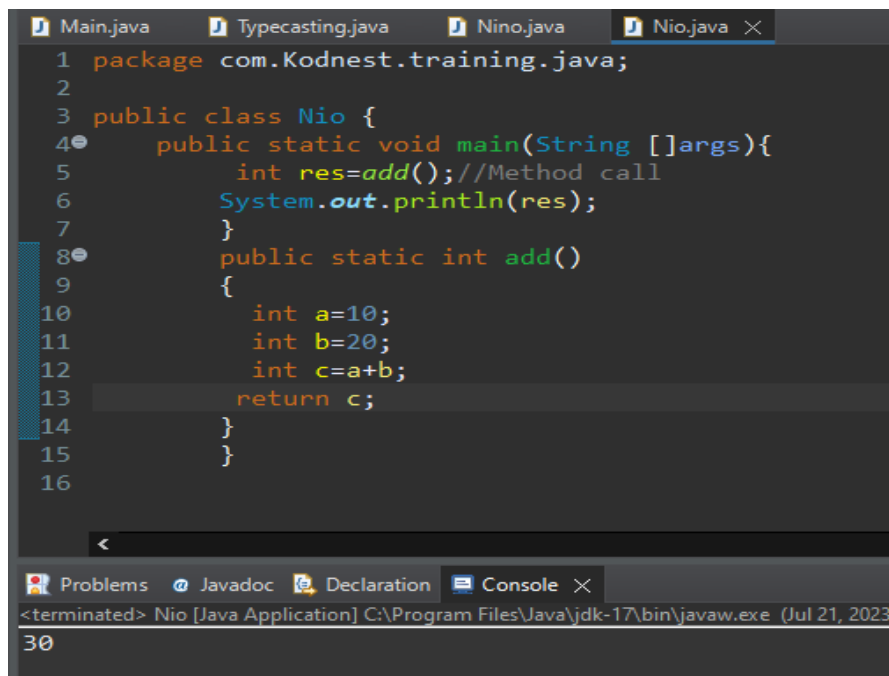
```
1 package com.Kodnest.training.java;  
2  
3 public class Nino{  
4     public static void main(String []args)  
5     {  
6         add();//Method call  
7     }  
8     public static void add()  
9     {  
10        int a=10;  
11        int b=20;  
12        int c=a+b;  
13        System.out.println(c);  
14    }  
15 }  
16
```

<terminated> Nino [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 21, 2023, 8:18:19)  
30

Type 2 Method which would not accept any parameter and would return value

```
class Demo{  
    public static void main(String []args){  
        int res=add();//Method call  
        System.out.println(res);  
    }  
    public static int add()  
    {  
        int a=10;  
        int b=20;  
        int c=a+b;  
        return c;  
    }  
}
```

**OUTPUT:**



The screenshot shows an IDE with four tabs: Main.java, Typecasting.java, Nino.java, and Nio.java. The Nio.java tab is active, displaying the following code:

```
1 package com.Kodnest.training.java;  
2  
3 public class Nio {  
4     public static void main(String []args){  
5         int res=add();//Method call  
6         System.out.println(res);  
7     }  
8     public static int add()  
9     {  
10        int a=10;  
11        int b=20;  
12        int c=a+b;  
13        return c;  
14    }  
15 }  
16
```

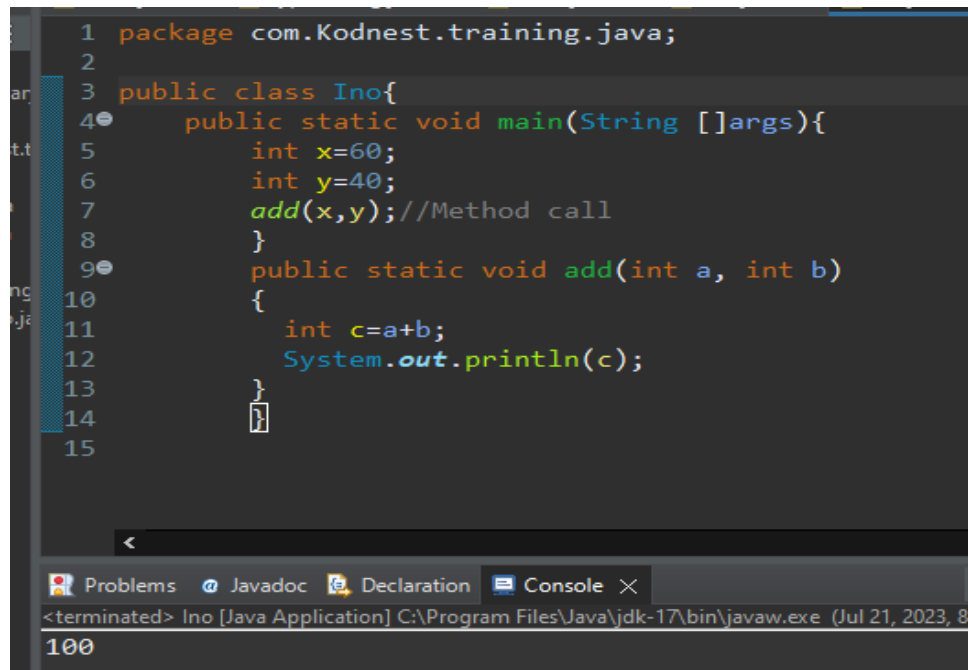
At the bottom, the Console tab is active, showing the output:

```
<terminated> Nio [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 21, 2023  
30
```

### Type 3 Method which would accept parameter and would not return any value

```
class Demo{  
public static void main(String []args){  
    int x=60;  
    int y=40;  
    add(x,y);//Method call  
}  
public static void add(int a, int b)  
{  
    int c=a+b;  
    System.out.println(c);  
}  
}
```

### **OUTPUT:**



The screenshot shows an IDE with a Java file named `Ino.java` (package `com.Kodnest.training.java`). The code defines a class `Ino` with a `main` method and a static `add` method. The `main` method initializes `x=60` and `y=40`, then calls `add(x,y)`. The `add` method calculates `c=a+b` and prints it. The console output at the bottom shows the program terminated successfully with the output `100`.

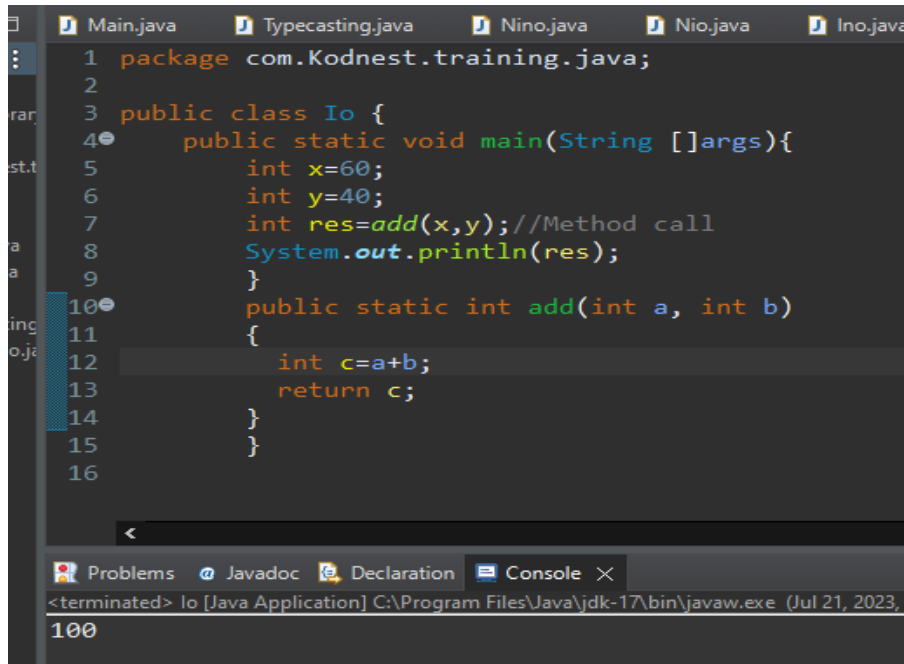
```
1 package com.Kodnest.training.java;  
2  
3 public class Ino{  
4     public static void main(String []args){  
5         int x=60;  
6         int y=40;  
7         add(x,y);//Method call  
8     }  
9     public static void add(int a, int b)  
10    {  
11        int c=a+b;  
12        System.out.println(c);  
13    }  
14 }  
15
```

<terminated> Ino [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 21, 2023, 8:10:10 AM)  
100

#### Type 4 Method which would accept parameter and would return any value

```
class Demo{  
    public static void main(String []args){  
        int x=60;  
        int y=40;  
        int res=add(x,y);//Method call  
        System.out.println(res);  
    }  
    public static void add(int a, int b)  
    {  
        int c=a+b;  
    }  
}
```

#### **OUTPUT:**



The screenshot shows an IDE with several tabs: Main.java, Typecasting.java, Nino.java, Nio.java, and Ino.java. The active tab is Main.java, which contains the following Java code:

```
1 package com.Kodnest.training.java;  
2  
3 public class Io {  
4     public static void main(String []args){  
5         int x=60;  
6         int y=40;  
7         int res=add(x,y);//Method call  
8         System.out.println(res);  
9     }  
10    public static int add(int a, int b)  
11    {  
12        int c=a+b;  
13        return c;  
14    }  
15 }  
16
```

At the bottom, there is a console window with the following output:

```
<terminated> Io [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Jul 21, 2023,  
100
```

