

# Java Methods

Topics : [JAVA](#)

Written on [March 10, 2023](#)

Java Method is a block of code or a collection of statements that performs a specific task. It provides the reusability of code.

Java methods are declared within a class.

You can create your own methods with or without return values, invoke a method with or without parameters, and apply method abstraction in the program.

Java provides in-built the main() method where java control starts execution of java code.

We can write a method once and use it many times. We do not require to write code again and again. It also provides the easy modification and readability of code

## How to create method in java class?

**Syntax:**

```
modifier returnType nameOfMethod (Parameter List) {  
    // body  
}
```

```
public static int methodName(int x, int y) {  
    // body  
}
```

Here,

public – Access modifier.

static - We created a static method which means that it can be accessed without creating an object of the class.

int – return type.

methodName – name of the method.

int x, int y – list of parameters with data type.

There are two types of methods in Java as below.

**1. Predefined Method** - The method is already defined in the Java class libraries is known as predefined methods in java. It is also known as the **standard library method** or **built-in method**. Example : print(), main() etc.

Example,

```
public class Aryatechno
{
    public static void main(String[] args)
    {

        System.out.print("Learn java tutorials! ");
    }
}
```

**2. User-defined Method** -The method written by the user or programmer is known as a **user-defined** method.

Example ,

```
public class Aryatechno {
    static void demoMethod() {
        System.out.println("Hello World!");
    }
}
```

As per as above example, we have created demoMethod method in Aryatechno class. A demoMethod method displays 'Hello World!' message. This method return void datatype value.

**Example :**

```
public class Aryatechno {

    public static void main(String[] args) {
        int x = 19;
        int y = 5;
        int z = addFunction(x, y);
        System.out.println("Addition Value : " + z);
    }

    /** returns the sum of two numbers */
}
```

```
public static int addFunction(int num1, int num2) {  
    int result;  
  
    result = num1 + num2;  
  
    return result;  
}  
}
```

**Output :**

Addition Value : 24

© Copyright **Aryatechno**. All Rights Reserved. Written tutorials and materials by [Aryatechno](#)