Function/Method

- What is function/method?

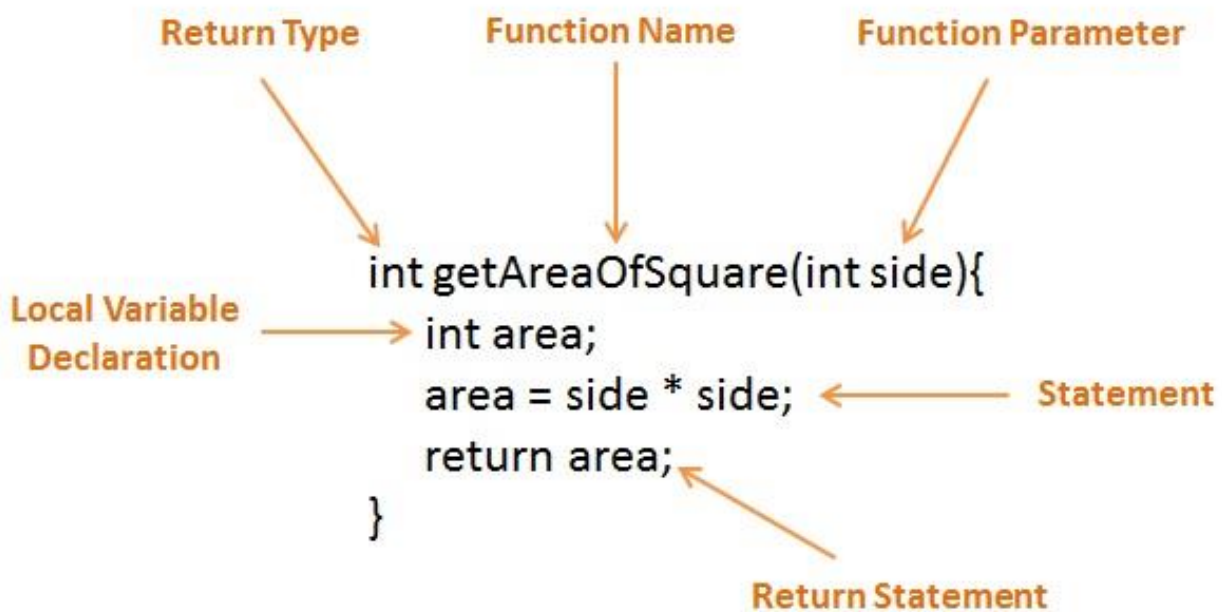A **method** is a block of code which only runs when it is called.

You can pass data, known as parameters, into a method.

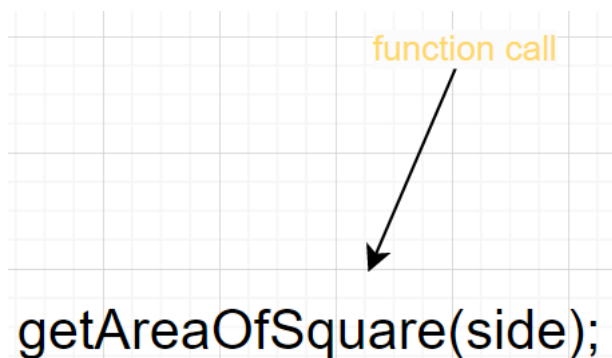Methods are used to perform certain actions, and they are also known as **functions**.

Why use methods? To reuse code: define the code once, and use it many times.

Function Example:

Function Definition

Return Type   Function Name   Function Parameter

```
int getAreaOfSquare(int side){
    int area;
    area = side * side;     ← Statement
    return area;
}
```

Local Variable Declaration

Return Statement

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function call

getAreaOfSquare(side);

- Parameter could be more than one or empty.

- Function without return type:

Example:

```java
import java.util.Scanner;

class function
{
    // function definition
    // we write static because we are calling the function within the class.
    static void welcomeMessage(String fullName)
    {
        System.out.print("Welcome "+fullName+ " to our website.");

    }
    Run | Debug
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        System.out.println(x:"Enter your name:");
        String name=sc.nextLine();
        welcomeMessage(name);//function call
    }
}
```

- Function without return type with two param ters:

```java
import java.util.Scanner;

class function
{
    static void welcomeMessage(String first, String last )
    {
        System.out.print("Welcome "+first+" "+last+" to our website
            .");

    }
    public static void main(String[] args){
        String firstName,lastName;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your first name:");
        firstName=sc.next();

        System.out.println("Enter your last name:");
        lastName=sc.next();
        welcomeMessage(firstName,lastName);
    }
}
```