Java Class Methods

Class Methods

- In Java, a method is nothing but a block of code/statement that is declared within the class and can perform different actions when someone calls it
- Some methods can be called directly with their name (i.e. without creating the class object) while some methods require instance/object of the class (i.e. must be invoked with the object of the class

Class Methods

- The methods that can be called directly are referred as a class or static methods
- The methods that need an object of the class to be invoked are referred as instance or non-static methods.

```
AddNumbers.java ×
public class AddNumbers {
 6
          public static int addition(int numl, int num2)
   8
              int add = numl + num2;

    Static Method

              return add;
10
11
12
   public static void main(String[] args) {
13
              int number1, number2, sum;
14
              Scanner scan = new Scanner(System.in);
15
              System.out.print("Enter 1st number: ");
16
              number1 = scan.nextInt();
17

    Taking Input Form User

18
              System.out.print("Enter 2nd number: ");
             number2 = scan.nextInt();
19
20
             sum = addition(number1, number2);
Calling the "addition" Method Directly
21
22
              System.out.println("Sum = " + sum);
23
B Output - AddNumbers (run) ×
   Enter 1st number: 12
    Enter 2nd number: 72
    Sum = 84
    BUILD SUCCESSFUL (total time: 8 seconds)
```

```
MyFunctions.java × AddNumbers.java ×
       Source
      public class AddNumbers {
 5
 6
   7
          public static void main(String[] args) {
 8
              int numberl, number2, sum;
 9
10
              Scanner scan = new Scanner (System.in);
              System.out.print("Enter 1st number: ");
11
              number1 = scan.nextInt();
12
              System.out.print("Enter 2nd number: ");
13
14
              number2 = scan.nextInt();
             MyFunctions obj = new MyFunctions();
                                                    Object Creation
15
 8
              sum = obj.addition(number1, number2);
                                                    Method Calling
              System.out.println("Sum = " + sum);
17
18
19
20
21
addnumbers.AddNumbers
Output - AddNumbers (run) ×
    Enter 1st number: 15

    Output

    Enter 2nd number: 12
    Sum = 27
    BUILD SUCCESSFUL (total time: 6 seconds)
```