

## Return Values of Functions:

- 1) We can create functions that return some values to the caller.
- 2) From our main we can call this function to access the returned values.

```
public class Example
{
    public static void main(String[] args)
    {
        Example obj = new Example();    //creating object of our class first
        System.out.println("Inside main");

        int n = obj.funB(10);
        System.out.println("Printing :" + n);
    }

    public int funB(int num)
    {
        System.out.println("Inside funB");

        int x = num + 10;

        return x;
    }
}
```

Calling our function and passing value 10

**int:** return type, telling this function returns an integer  
**funB:** function name  
**num:** input, value 10 is copied in num

Value of variable x is returned to variable n

### Output:

```
Inside main
Inside funB
Printing: 20
```

<b>Task 1.1</b>	<b>Create a function named square that takes a an integer n as input and returns the square of variable n.</b>	
<b>Test Cases</b>	<b>Input</b>	<b>Return Value</b>
	n = 2	4
	n = 9	81
	n = 0	0
<b>Task 1.2</b>	<b>Given an integer array as input. Use square function from Task 1.1 to print squares for each element in this array.</b>	
<b>Test Cases</b>	<b>Input</b>	<b>Expected Output</b>
	{4, 3, 10}	4 Square = 16 3 Square = 9 10 Square = 100

<b>Task 1.3</b>	<b>Given an integer array as input. Use square function from Task 1.1 to print sum of squares of every element in this array.</b>	
<b>Test Cases</b>	<b>Input</b>	<b>Expected Output</b>
	{3, 4}	25
	{8, 6, 9}	181

<b>Task 2.1</b>	<b>Create a function named removeChar that takes two inputs – a string and a character. You have to return a new string with all the occurrences of input character removed from input string.</b>	
<b>Test Cases</b>	<b>Input</b>	<b>Expected Output</b>
	"hello", 'l'	"heo"
	"trisect", 't'	"risec"
<b>Task 2.2</b>	<b>Given a string array as input. Use removeChar function from Task 2.1 to remove character 'd' from every element of this array.</b>	
<b>Test Cases</b>	<b>Input</b>	<b>Expected Output</b>
	{"dad", "car", "dat"}	{"a", "car", "at"}