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July Java A2 Batch(Online)
Assignment on Methods in Java (July 21)

Methods in Java:

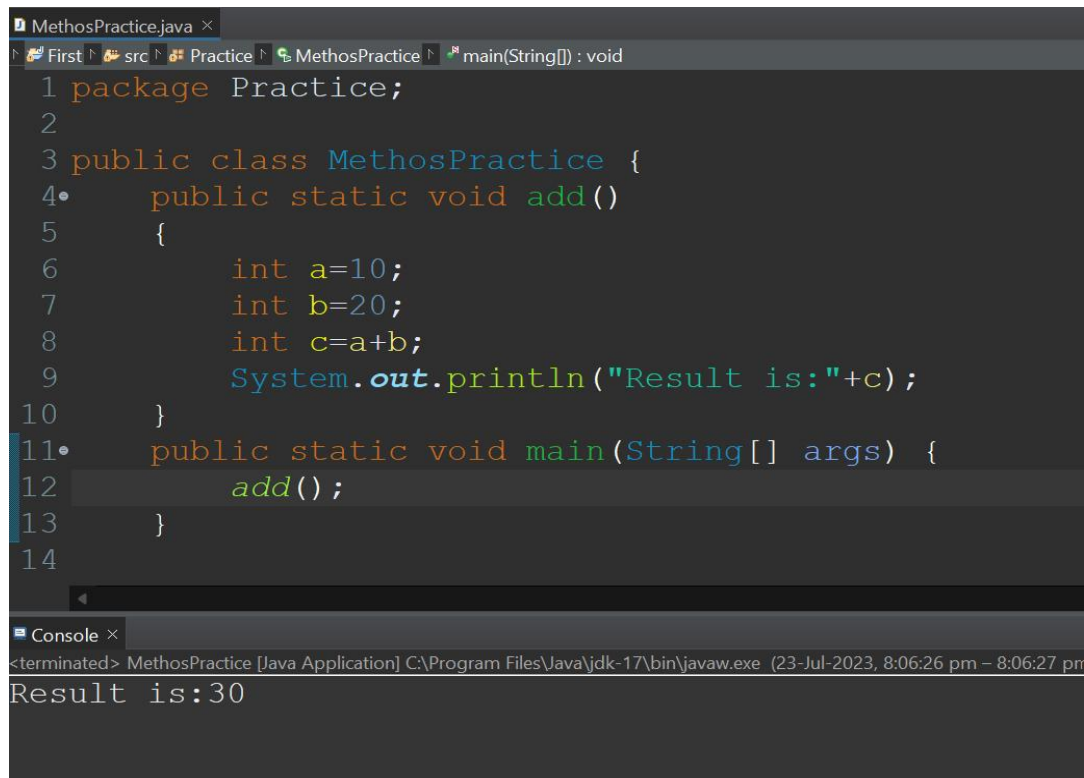
Methods are set of statements to perform a particular task . A method can be executed by calling its name.

Methods are classified into 4 types in java:

1. Methods without parameters and without return type
2. Methods without parameters and with return type
3. Methods with parameters and without return type
4. Methods with parameters and with return type

1. Methods without parameters and without return type:

For understanding: no input given to method and no return value given from method.



```
1 package Practice;
2
3 public class MethosPractice {
4     public static void add()
5     {
6         int a=10;
7         int b=20;
8         int c=a+b;
9         System.out.println("Result is:"+c);
10    }
11    public static void main(String[] args) {
12        add();
13    }
14
```

Console ×

<terminated> MethosPractice [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (23-Jul-2023, 8:06:26 pm – 8:06:27 pm)
Result is:30

2. Methods without parameters and with return type:

For understanding: no input given to method but return value given from method.

```
MethosPractice.java ×
First | src | Practice | MethosPractice | add() : int
2
3 public class MethosPractice {
4     public static int add()
5     {
6         int a=10;
7         int b=20;
8         int c=a+b;
9         System.out.println("Result printed using print stmt inside method:"+c);
10        return c;
11    }
12    public static void main(String[] args) {
13        int res=add();
14        System.out.println("Result that is returned from method:"+res);
15    }
16
17 }
```

```
Console ×
<terminated> MethosPractice [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (23-Jul-2023, 8:29:50 pm - 8:29:50 pm) [pid: 42436]
Result printed using print stmt inside method:30
Result that is returned from method:30
```

3. Methods with parameters and without return type:

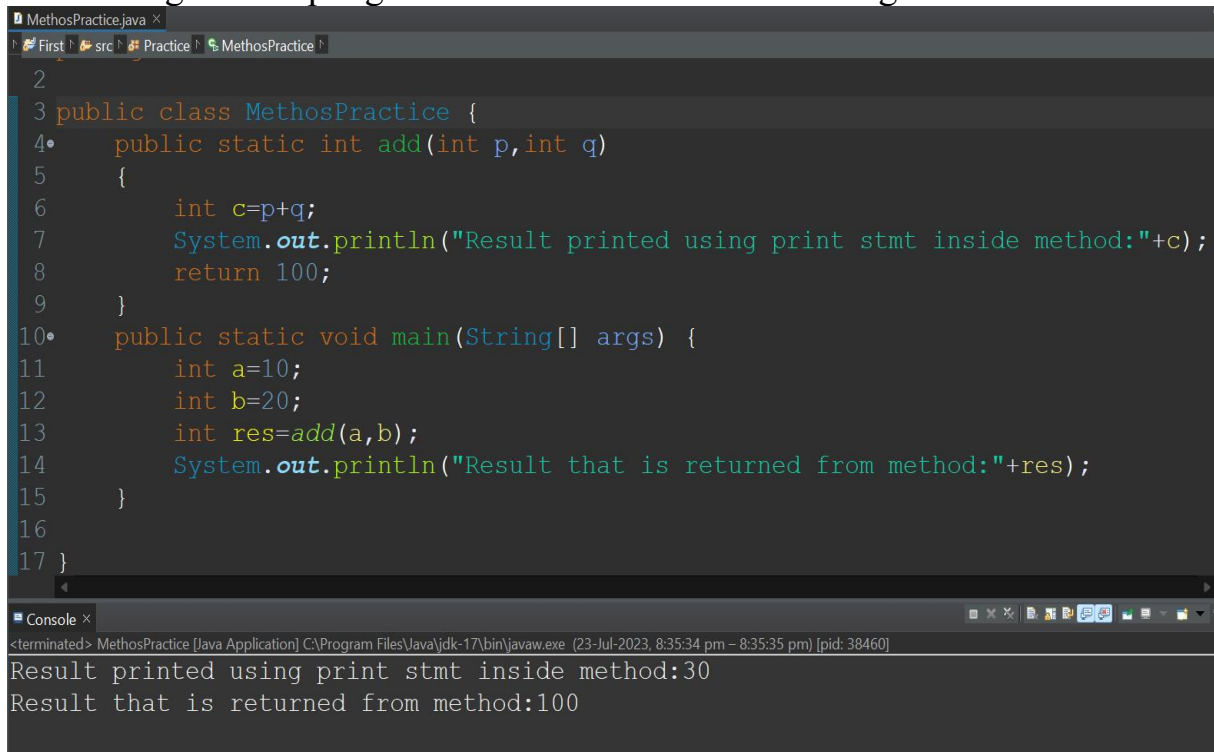
For understanding: with input given to method and no return value given from method.

```
MethosPractice.java ×
First | src | Practice | MethosPractice | add(int, int) : void
2
3 public class MethosPractice {
4     public static void add(int p,int q)
5     {
6         int c=p+q;
7         System.out.println("Result printed using print stmt inside method:"+c);
8     }
9     public static void main(String[] args) {
10        int a=10;
11        int b=20;
12        add(a,b);
13        //System.out.println("Result that is returned from method:"+res);
14    }
15
16 }
17 }
```

```
Console ×
<terminated> MethosPractice [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (23-Jul-2023, 8:33:36 pm - 8:33:37 pm) [pid: 37088]
Result printed using print stmt inside method:30
```

4. Methods with parameters and with return type:

For understanding: with input given to method and return value given from method.



```
2
3 public class MethosPractice {
4     public static int add(int p,int q)
5     {
6         int c=p+q;
7         System.out.println("Result printed using print stmt inside method:"+c);
8         return 100;
9     }
10    public static void main(String[] args) {
11        int a=10;
12        int b=20;
13        int res=add(a,b);
14        System.out.println("Result that is returned from method:"+res);
15    }
16
17 }
```

<terminated> MethosPractice [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (23-Jul-2023, 8:35:34 pm - 8:35:35 pm) [pid: 38460]
Result printed using print stmt inside method:30
Result that is returned from method:100