

## METHODS IN JAVA

Methods are the set of statements used to perform a particular task.

If a method has to be executed it has to be called by using it's main.

### Syntax of a method :

```
returntype  methodname(parameters)
{
    //definition
}
```

Based on whether a method is accepting the parameter and returning the value or not. Methods are classified into 4 types.

Type 1 methods:

Methods which would not accept any parameters, which would not return any value.

```
1 package yash;
2
3 public class demo {
4     public static void main(String[] args) {
5         add();
6     }
7
8     public static void add() {
9         int a=10;
10        int b=20;
11        int c=a+b;
12        System.out.println(c);
13    }
14 }
15
```

Console ×

<terminated> demo [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (22-Jul-2023) 30

Type 2 methods:

Methods which would not accept any parameters, which would return value.

```
1 package yash;
2
3 public class demo {
4     public static void main(String[] args) {
5         int res = add();
6         System.out.println(res);
7     }
8     public static int add() {
9         int a=10;
10        int b=20;
11        int c=a+b;
12        System.out.println(c);
13        return c;
14    }
15 }
16
```

Console ×

<terminated> demo [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (22-Jul-2023, 2:07:51 pm – 2:07:53 pm) [pid: 1852]

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Type 3 methods:

Methods which would accept any parameters, which would not return any value.

```
1 package yash;
2
3 public class demo {
4     public static void main(String[] args) {
5         int x=60;
6         int y=40;
7         add(x,y);
8     }
9     public static void add(int a,int b ) {
10        int c=a+b;
11        System.out.println(c);
12    }
13 }
14
```

Console ×

<terminated> demo [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (22-Jul-2023, 2:09:42 pm – 2:09:44 pm) [pid: 11268]

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Type 4 methods:

Methods which would accept any parameters, which would return any value.

```
1 package yash;
2
3 public class demo {
4     public static void main(String[] args) {
5         int x=60;
6         int y=40;
7         int res=add(x,y);
8         System.out.println(res);
9     }
10    public static int add(int a,int b ) {
11        int c=a+b;
12        return c;
13    }
14 }
15
```

Console x

<terminated> demo [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (22-Jul-2023, 2:11:26 pm – 2:11:28 pm) [pid: 12060]  
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