

Angel Maria S

IT Engineer

To work in a challenging and dynamic environment and to keep adding value to the organization that I represent and serve, while also concurrently upgrading my skills and knowledge

angel3008mary@gmail.com
9961944064
Pala, India

Assignment 5

METHODS IN JAVA

Methods in java are the set of statements used to perform particular tasks.

If a method has to be executed, it has to be called, by called using its method name.

Syntax,

```
Returntype methodname (parameters) {  
    //Definitions  
}
```

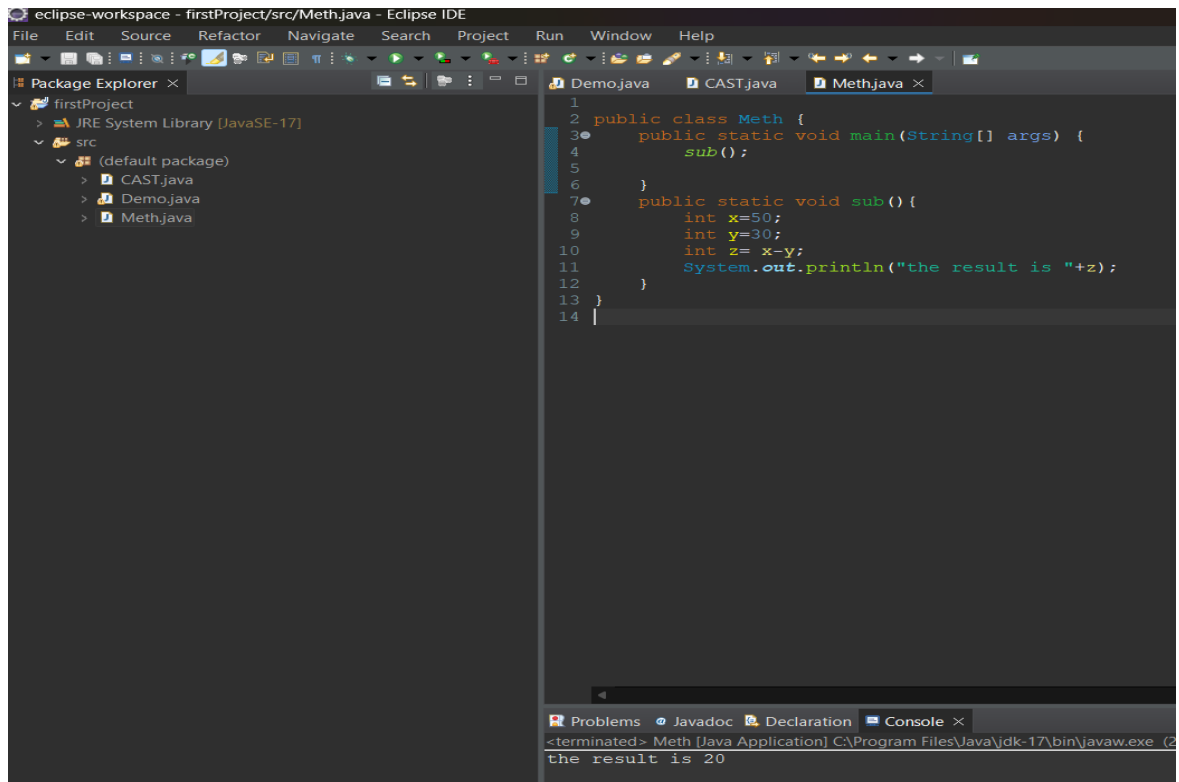
```
Output methodname (inputs) {  
    // statements or body  
}
```

-based on whether method is accepting the parameters and would have returning value or not.

Methods are classified into 4 types:

- ❖ TYPE 1
- ❖ TYPE 2
- ❖ TYPE 3
- ❖ TYPE 4

1. No parameters -----→TYPE 1-----→No return value

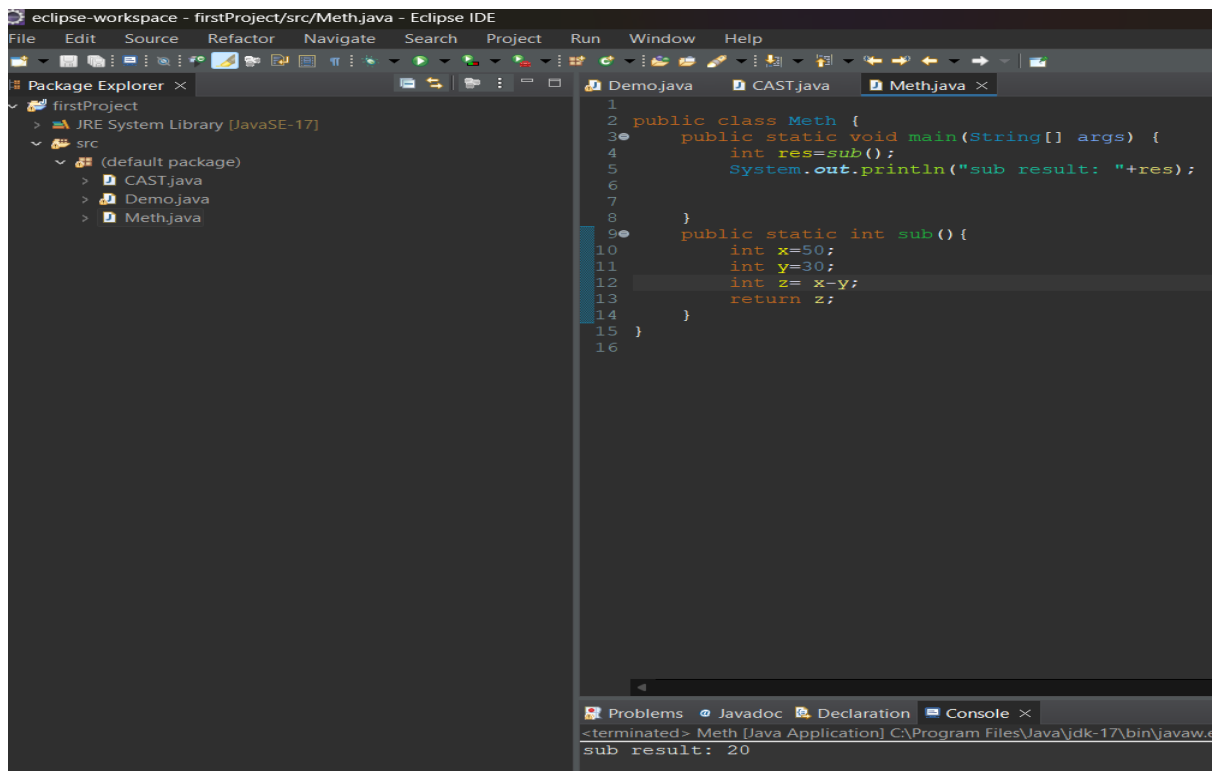


The screenshot shows the Eclipse IDE with a project named 'firstProject'. The Package Explorer on the left shows the project structure. The main editor displays the code for 'Meth.java'. The code defines a public class 'Meth' with two methods: 'main' and 'sub'. The 'main' method calls 'sub'. The 'sub' method has no parameters and no return value. The console at the bottom shows the output of the program.

```
1 public class Meth {
2     public static void main(String[] args) {
3         sub();
4     }
5
6     public static void sub() {
7         int x=50;
8         int y=30;
9         int z= x-y;
10        System.out.println("the result is "+z);
11    }
12 }
13
14
```

Console output: <terminated> Meth [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (2) the result is 20

2. No parameters -----→TYPE 2-----→ return value

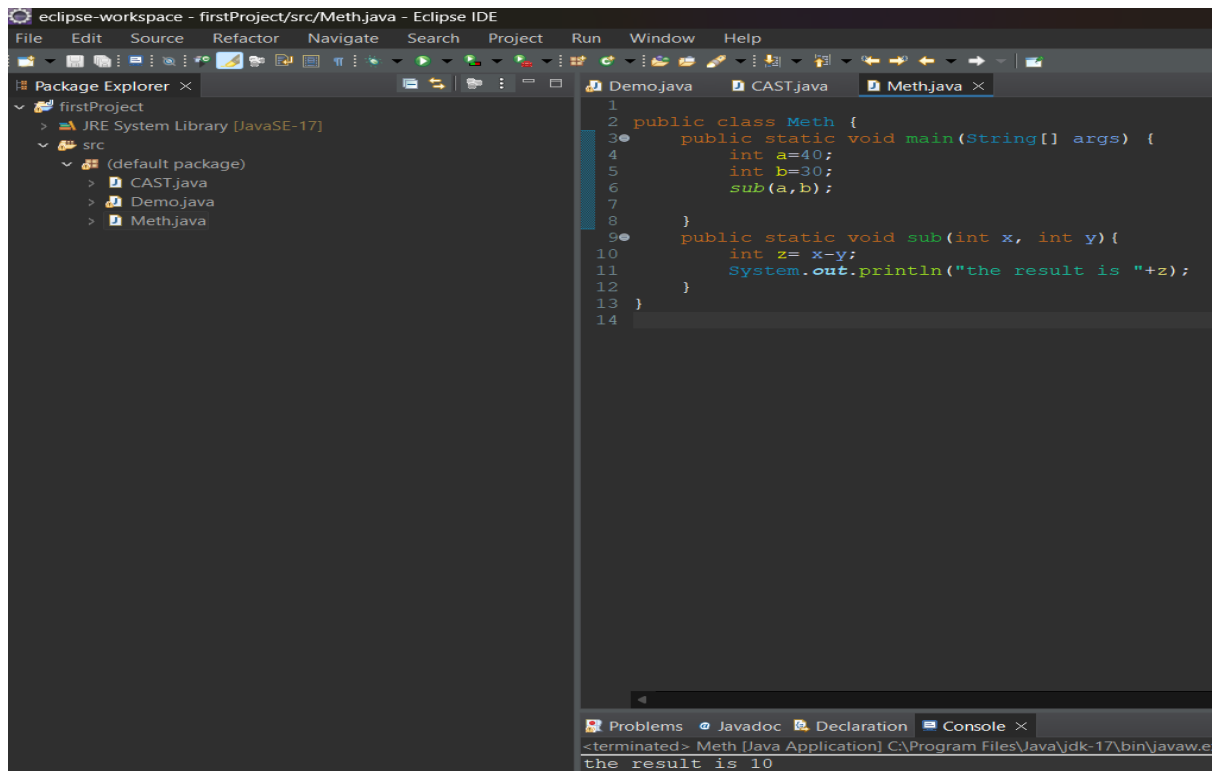


The screenshot shows the Eclipse IDE with a project named 'firstProject'. The Package Explorer on the left shows the project structure. The main editor displays the code for 'Meth.java'. The code defines a public class 'Meth' with two methods: 'main' and 'sub'. The 'main' method calls 'sub' and prints the result. The 'sub' method has no parameters and returns an integer value. The console at the bottom shows the output of the program.

```
1 public class Meth {
2     public static void main(String[] args) {
3         int res=sub();
4         System.out.println("sub result: "+res);
5     }
6
7     public static int sub() {
8         int x=50;
9         int y=30;
10        int z= x-y;
11        return z;
12    }
13 }
14
15
16
```

Console output: <terminated> Meth [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (2) sub result: 20

3. parameters -----→TYPE 3-----→No return value

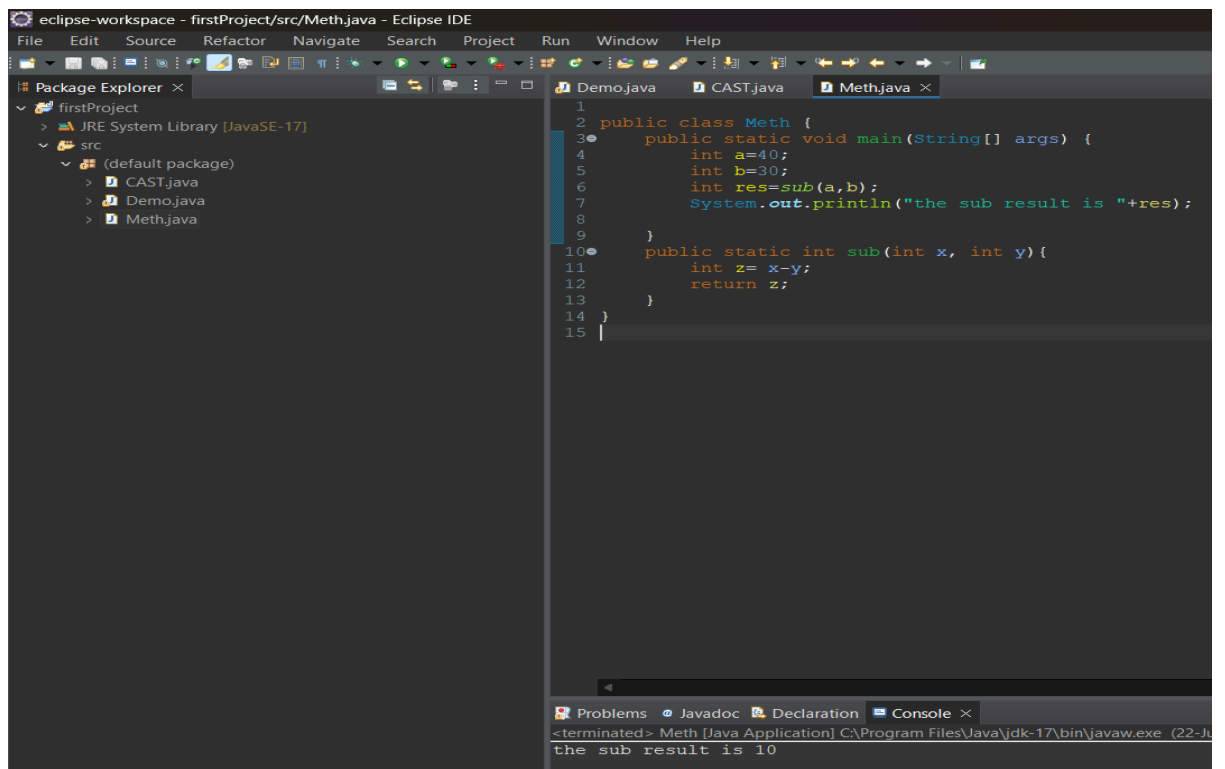


The screenshot shows the Eclipse IDE with a project named 'firstProject'. The Package Explorer on the left shows the project structure. The main editor displays the code for 'Meth.java'. The code defines a public class 'Meth' with two methods: 'main' and 'sub'. The 'main' method calls 'sub' and prints the result. The 'sub' method is a static void method that takes two integers as parameters and returns no value.

```
1 public class Meth {
2     public static void main(String[] args) {
3         int a=40;
4         int b=30;
5         sub(a,b);
6     }
7
8     public static void sub(int x, int y){
9         int z= x-y;
10        System.out.println("the result is "+z);
11    }
12 }
13
14
```

The console output at the bottom shows: <terminated> Meth [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe the result is 10

4. parameters -----→TYPE 4-----→return value



The screenshot shows the Eclipse IDE with a project named 'firstProject'. The Package Explorer on the left shows the project structure. The main editor displays the code for 'Meth.java'. The code defines a public class 'Meth' with two methods: 'main' and 'sub'. The 'main' method calls 'sub' and prints the result. The 'sub' method is a static int method that takes two integers as parameters and returns an integer value.

```
1 public class Meth {
2     public static void main(String[] args) {
3         int a=40;
4         int b=30;
5         int res=sub(a,b);
6         System.out.println("the sub result is "+res);
7     }
8
9     public static int sub(int x, int y){
10        int z= x-y;
11        return z;
12    }
13 }
14
15
```

The console output at the bottom shows: <terminated> Meth [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (22-J the sub result is 10

