

OVERLOADING main() METHOD IN JAVA

Example-1:

```
class Simple{  
    public static void main(int a){  
        System.out.println(a);  
    }  
  
    public static void main(String args[]){  
        System.out.println("main() method invoked");  
        main(10);  
    }  
}
```

Output:

```
main() method invoked  
10
```

Example-2:

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println("main(String[] args)");  
    }  
  
    public static void main(String arg1) {  
        System.out.println("main(String arg1)");  
    }  
  
    public static void main(String arg1, String arg2) {  
        System.out.println("main(String arg1, String arg2)");  
    }  
}
```

The `main` method in Java is no extra-terrestrial method. Apart from the fact that `main()` is just like any other method & can be overloaded in a similar manner, JVM always looks for the method signature to launch the program.

- The normal `main` method acts as an entry point for the JVM to start the execution of program.
- We can overload the `main` method in Java. But the program doesn't execute the overloaded `main` method when we run your program; we need to call the overloaded `main` method from the actual `main` method only.

Example-3:

```
// A Java program with overloaded main()
import java.io.*;

public class Test {
    // Normal main()
    public static void main(String[] args) {
        System.out.println("Hi Geek (from main)");
        Test.main("Geek");
    }

    // Overloaded main methods
    public static void main(String arg1) {
        System.out.println("Hi, " + arg1);
        Test.main("Dear Geek","My Geek");
    }

    public static void main(String arg1, String arg2) {
        System.out.println("Hi, " + arg1 + ", " + arg2);
    }
}
```

Output:

Example-4:

```
public class Test{
static public void main( String [] args ){
    System.out.println( "In the JVMs static main" );
    main( 5, 6, 7 );    //Calling overloaded static main method
    Test t = new Test( );
    String [] message = { "Subhash", "Loves", "Programming" };
    t.main(5);
    t.main( 6, message );
}

    public static void main( int ... args ){
        System.out.println( "In the static main called by JVM's main" );
        for( int val : args ){
            System.out.println( val );
        }
    }

    public void main( int x ){
        System.out.println( "1: In the overloaded  non-static main with int with value " + x );
    }

    public void main( int x, String [] args ){
        System.out.println( "2: In the overloaded  non-static main with int with value " + x );
        for ( String val : args ){
            System.out.println( val );
        }
    }
}
```

Output: