**Main() Method in Java**

**main()** method is starting execution block of a java program or any java program start their execution from main method. If any class contain main() method known as main class.

Syntax of main() method:

**Syntax**

**public** **static** **void** main(String args[])

{

.......

.......

}

**Public**

**public** is a keyword in a java language whenever if it is preceded by main() method the scope is available anywhere in the java environment that means main() method can be executed from anywhere. main() method must be accessed by every java programmer and hence whose access specifier must be public.

**Static**

**static** is a keyword in java if it is preceded by any class properties for that memory is allocated only once in the program. Static method are executed only once in the program. main() method of java executes only once throughout the java program execution and hence it declare must be static.

**Void**

**void** is a special datatype also known as no return type, whenever it is preceded by main() method that will be never return any value to the operating system. main() method of java is not returning any value and hence its return type must be void.

**String args[]**

**String args[]** is a String array used to hold command line arguments in the form of String values.

**In case of main() method following changes are acceptable**

1. We can declare String[] in any valid form.

* String[] args
* String args[]
* String []args

2. Instance of String[] we can take var-arg String parameter is String...

**Syntax**

main(String[] args) --> main(String... args)

3. We can change the order of modifiers i.e Instead of

**Syntax**

**public** **static** we can take **static** **public**

4. Instead of args we can take any valid java identifier.

**Syntax**

**public** **static** **void** main(String a[])

**We can overload main() method ?**

Yes, We can overload main() method. A Java class can have any number of main() methods. But run the java program, which class should have main() method with signature as **"public static void main(String[] args)**. If you do any modification to this signature, compilation will be successful. But, not run the java program. we will get the run time error as main method not found.

**Example of override main() method**

**Example**

**public** **class** mainclass

{

**public** **static** **void** main(String[] args)

{

System.**out**.println("Execution starts from Main()");

}

**void** main(**int** args)

{

System.**out**.println("Override main()");

}

**double** main(**int** i, **double** d)

{

System.**out**.println("Override main()");

**return** d;

}

}

**Output**

Execution starts from Main()