**Main method :** Java program execution starts with main method. If we run a program without writing main method then we get runtime exception : No such method error : main. So, the presence of main method is checked at run time by JVM not by compiler at compile time. JVM searches a main method with prototype : public static void main (String args[]). Inside this syntax is configured, hence it always surches for this syntax. **We can change main method name**, but for that customization of JVM is required. We wont do it normally, we use main only.

Public : to call by jvm from anywhere, main method should be public.

Static : without any existing object, jvm has to call main method, so it is static. And main method is no were related to any particular object.

Void : main method wont return anything to JVM hance return type is void.

Main : this is the name which is configured inside JVM

String args[] : command line arguments (arguments we are passing from command line)

The syntax of main is very strict and if we change it then we get runtime exception. Also, a few changes to the syntax are acceptable :

1. Order of modifiers is not important (we can have static public.. )
2. Valid array declaration is acceptable (String[] args / String []args / String args[])
3. We can have main method with final keyword

**1. Overloading** of main method is possible and JVM always calls 1st one of the following(because this is expected sysnatx) :

Class Test

{

public static void main (String args[]) // overloading of main method

{

}

public static void main (**int** args[]) // overloading of main method

{

}

}

**2**. **Inheritance** concept is applicable for main method. While executing child class, if child class doesn’t contain main method then parent class main method will be executed.

Class Parent

{

public static void main (String args[])

{

}

}

Class child extends Parent

{

}

**3**.**Method overloading - hiding** : parent and child both contains public static void main(String args[]). Since main is static, this is known as method hiding that means parent and child posses exactly same static methods.