Static variable means once you create a variable as static then that variable is common to all instance or object of class.

Static method :

If you declare method as static means we can call that method directly in main method without any object or instance.

Static block is used to initializing the static variables.

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

1. Why JVM is going to search first for main method only?

JVM is a software program.

Instructions return inside JVM is nothing but whenever is JVM is going to execute any program internally which method it must execute is nothing, but **Public static void main(String[] args)** is configured inside JVM.

1. Is it possible to change the name of the main?

Yes, we can update JVM configuration inside. We can replace main with some other thing what ever we want, but customization od JVM needs to be done once updated with new one.

1. Why main method is Public?

Who is going to call main method means JVM is going to call main method.

JVM may installed in inside C or any drive in out laptop.

So to call by JVM from anywhere main method should be public.

1. **Why main method is static?**

JVM will call main method first.

First calling main method means, there is no hope to find object in program.

Without existing any object also JVM has to call this main method and main method no way related to any particular object. That’s why main method should be static.

1. **Why main method is void?**

JVM is going to call main method.

If I am calling main method then I can expect some return type and will that return type value in rest of the program.

If I will return something to the main method what JVM is going to do with that return value.

Nothing will do JVM.

That’s why main method will not return anything to the JVM. That’s why return type for main method as void.

1. **what (String[] args)?**

(String[] args) are command line arguments

**Note:** If we will change anything in syntax of main method, will not get any compile error, but will get runtime error.

Error: NoSuchMethodError:main.

Below error getting in eclipse oxygen.

Error: Main method not found in class week1.day2.ErrorForMainMethod, please define the main method as:

public static void main(String[] args)

or a JavaFX application class must extend javafx.application.Application

Develop/Edit, Compile,Run

