# JAVA Preparation

## Static Keyword

* Where can we use static keyword?

Static keyword can be applied to variables, methods, and nested class only and to define static block also.

* Why is the Java main method static?

It is because the object is not required to call a static method. If it were a non-static method, JVM creates an object first then call main () method that will lead the problem of extra memory allocation.

* Can we Override static method?  
   No, we can't override static method in java. Method overriding is based on dynamic binding at runtime and the static methods are bonded using static binding at compile time.
* Can we Overload static method?  
   Yes, we can overload static method.
* Can we declare multiple static blocks in our code?  
   Yes, we can declare multiple static blocks and it will execute in the same order it defined.
* Can we call super class static method in sub class?  
   Yes, we can call super class static method in sub class, but it can't override in sub class.
* Can constructor be static in java?  
   Constructor cannot be a static because static method belongs to the class, not any object whereas constructor invoked at the time of object creation.
* Can we access non-static data member in static method in java?  
   No, we can't call non-static data member in static member in java.
* Can we use this and super in static context?  
   No, because this and super belongs to objects.
* Can abstract class have static variable in it?  
   Yes, we can define static variable in abstract class.

## Final Keyword