**Static, final and Nested classes**

1. **Can external class be declared as static.**
   1. no
2. **List two final classes available in java API.**
   1. Java.lang.String and java.lang.Math
3. **Is there any difference between finalize and final.**
   1. Finalize is like destructor
4. **If you compile a file containing inner class how many .class files are created and what are all of them accessible in usual way?**
5. **Java allow operator overloading? Why?**
   1. No, operator overloading makes code complicated.
6. **True, false and null are keywords?**
   1. no
7. **can static variable be declared with local methods.?**
   1. no
8. **When a compiler supply default constructor of a class?**
   1. When a class don’t have any constructor
9. **Does a drive class inherit constructor of its base class?** 
   1. No, constructor are not inherited but invoked from derive class.
10. **Can an interface extend another interface.?**
    1. **Yes**
11. **Can an interface implement another interface?**
    1. **No, interface can’t provide implementation, so interface can not implement interface.**
12. **How to access the inner class from code within the outer class?**
13. **How to create an inner class instance from outside the outer class instance code?**
14. **How to refer to the outer this i.e. outer class’s current instance from inside the inner class?**
15. **What is the purpose of abstract variable?**
    1. **Variables cant be abstract, only class and methods can be abstract.**
16. **Can abstract class be declared final?**
    1. **No,**
17. **Which modifiers can be applied to the inner class?**
    1. ) Following are modifiers that can be applied to the inner:   
            public   
            private   
            abstract   
            final   
            protected   
            strictfp   
            static – turns the inner class into static nested class.
18. **Can we declare an inner class in a local method of outer class.**
    1. **Yes, its allowed.**
19. **Can the method local inner class object access method’s local variables?**
    1. Ans) No, a method local inner class object can not access the method local variable.   
       **Reason**: The local variables are not guaranteed to live as long as the local inner class object. The method local variable live on stack and exist only till the method lives, their scope is limited only code inside the method they are declared in. But the local inner class object created within the method lives on heap and it may exist even after the method ends if in case the reference of this local inner class is passed into some other code and is stored in an instance variable. So we can not be sure that the local variables will live till the method local inner class object lives, therefore the method local inner class object can not access the method local variable. To access the method local variables, the variable has to be declared as final.
20. **Can a method local inner class access the local final variables?Why?**
    1. Ans) Yes. Because the final variables are stored on heap and they live as long as the method local inner class object may live.
21. **Which modifiers can be applied to the method local inner class?**
    1. Ans) Only abstract or final keyword is allowed.
22. **Can a local class declared inside a static method have access to the instance members of the outer class?**
    1. Ans) No. There is no this reference available in the static method .The static method class can not have access to any members of the outer class other than static members.
23. **Is it possible to print any statement before main is executed? How ?** 
    1. **Write it in static block , static block is executed just once and before main .**
24. **Does the order of public and static declaration matter in main() method?**
    1. **No**
25. **How many types of memory areas allocated by JVM?**

Many types:

1. Class(Method) Area
2. Heap
3. Stack
4. Program Counter Register
5. Native Method Stack
6. **Is empty .java file name is a valid file name? can you compile and execute this file ?how?**

**Yes, Complie: java .java, Execute java class name**

1. **If you donot provide any arguments from command line then string array ofmain method will be empty or null?**

**Its empty not null.**

1. **Can you prefix final with constructor ?**

**No**

1. **Is it possible to execute a program with out main()?**

**Yes, through static block. Create object of class in static block. [unit i/Without\_Main.java]**

1. **Why java does not support operator overloading and pointers ?**

Pointer is a variable that refers to the memory address. They are not used in java because they are unsafe(unsecured) and complex to understand.