

Static keyword mainly used for memory management. It is used with variables, blocks, method and classes. It is used to efficient memory management once we use static the object is taken space at once time.

Eg: class A {

static obj26;
}

class B {

public static void main(String args[])
{
System.out.println(A.obj26);
}

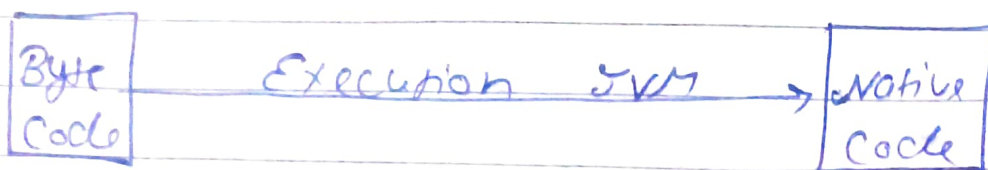
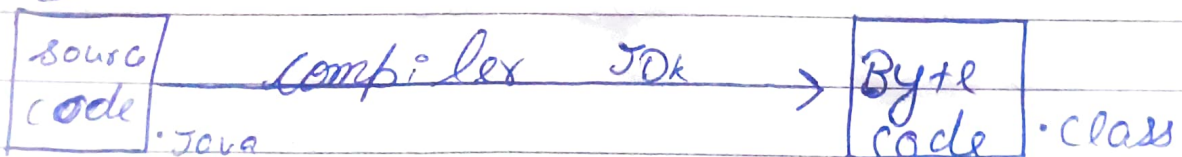
Class loader means once we created a object that object is store in heap area. It will be allocated once in a memory and copy of data store among all class of objects.

Steps are

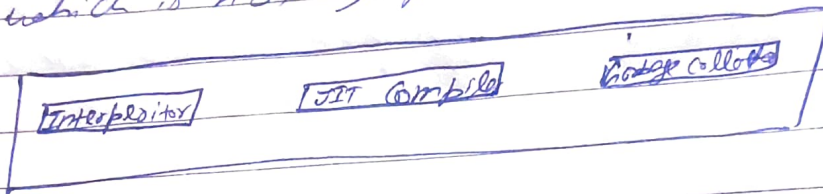
load → link → Initialization

verify
Preparse
Resolve

How java program execute



Firstly source code is compiled by JVM
 to Byte code and Byte code is
 executed ~~to~~ native code by
 JVM. Now JVM interpreter
 is used to execute the ~~code~~ code
 and just-in-time (JIT) help
 the interpreter ~~help it~~ ~~to execute the~~
 to execute the loop code and
 Garbage Collector collect the object
 which is not referred by any one.



Ans 3 No, we can't mark local variable as
 static because at the time of
 class loading memory is given to
 static variable and instance variable
 will be allocated at the time of object
 creation. ~~So we can't~~

Ans 4 Static block is execute first ~~at the time~~
 before the main method because
 compiler store the memory at the
 time of class loading. Execution
 process :

- Static variable
- Static Block
- Static method
- Non Static (Instance)
- Non Static Block
- Non Static (method)

Static method also called class method because a method belong to a class rather than an instance of a class. We don't need to create a ^{object} ~~variable~~ for call a static method.

Static block is used in Java. It is used to write a code and initializing static variable and giving the default value of static because memory is given at the time of class loading.

Static variable It is executed without creation of object. The value of static is give at time of class loading. static variable are a method or block.

Instance variable It is execute by creating on object with the help of new keyword. It is called by object reference. Instance variable are declared outside the method but within a class.

Static member It belong to class itself. I don't specify instance of class. They can be accessed using the class name with dot operator. It can be variable, method or class.
Non static member It is belong to instance of class. It is called by creating an object with new keyword with ~~an~~ ~~object~~ object reference name. It can be variable, method