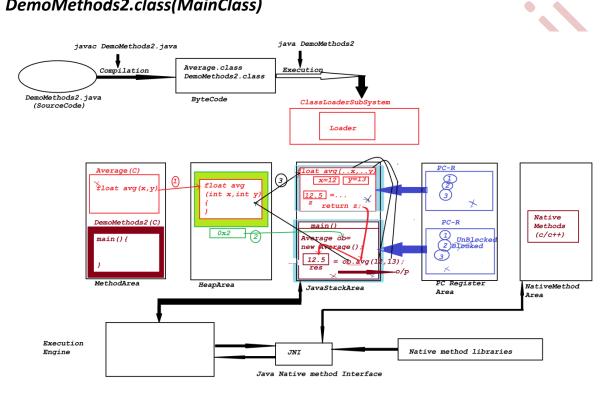
Dt: 24/7/2023

Execution flow of DemoMethods2.java:

ClassFiles:

Average.class

## DemoMethods2.class(MainClass)



(JVM...cont...)

## (d)PC Register Area:

- =>Program Counter(PC) registers will record the status of method execution in JavaStackArea.
- =>Every method which is executing in JavaStackArea will have its own PC-Register

and all these PC-Registers are opened in a separate memory block known as
PC-Register Area.
=>These Program Conter Registers will control and moniter the execution process
process
of ExecutionEngine when shifted from one method to another method.
===
(e)Native Method Area:
=>The methods from JavaLib which are declared with "native" keyword are
known as
Native methods.
=>These native methods internalling having c/c++ codes.
=>when these native methods are used in applications then
ClassLaoderSubSystem
will separate these methods and load on to a separate memory location
known
as Native method Area.
=>ExecutionEngine will use JNI(Java Native method Interface),a internal
component
to execute Native methods.
======
3.Execution Engine:

=>ExecutionEngine is a processor or executor of JVM and which starts the execution
process with main() method available in JavaStackArea.
=>ExecutionEngine internally having two translators:
(i)Interpreter
(ii)JIT-Compiler
(i)Interpreter:
=>Interpreter will start the execution process and executes normal
Instructions.
=>when interpreter finds stream-instructions(Bulk-data-transfer) then it
transfers the control to JIT-Compiler.
(ii)JIT-Compiler:
=>JIT(Just-In-Time) Compiler will execute Stream Instructions or Multi-Media
Instructions.
=======================================
faq:
why Javalang use Interpreter in execution-process?
=>when we have interpreter in execution-process,then we can accept the request
in the middle of execution-process and which is preferable for client-server

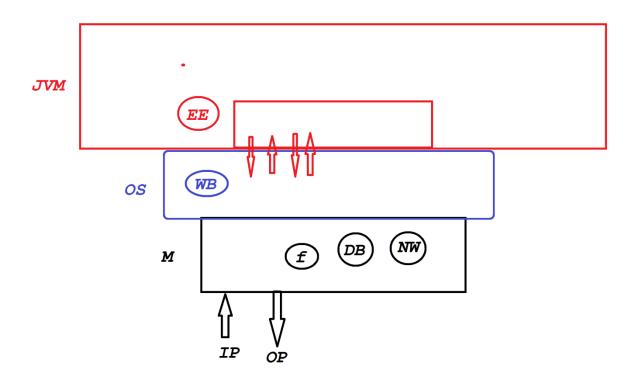
## application development.

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## Note:

=>Java is interpreted language beacause it uses interpreter in execution process.



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