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***Dt : 10/8/2022***

***\*imp***

***JVM Internals:(Execution flow of program on JVM)***

***=>JVM internally having the following partitions:***

***1.Class Loader SubSystem***

***2.Runtime DataArea***

***3.ExecutionEngine***

***1.Class Loader SubSystem:***

***=>Class Loader SubSystem will load the ByteCode(Class file)***

***onto 'Runtime DataArea' using 'Loader'.***

***2.Runtime DataArea:***

***=>This Runtime DataArea internally divided into the following***

***partitions:***

***(a)Method Area***

***(b)Heap Area***

***(c)Java Stack Area***

***(d)PC-Register Area***

***(e)Native Method Area***

***(a)Method Area:***

***=>The partition where the class is loaded known as Method***

***Area.***

***=>while Class loading static members will get the memory***

***within the class.***

***=>Once main() got the memory within the class then it is***

***automatically copied onto JavaStackArea to start the***

***execution process.***

***(b)Heap Area:***

***=>The partition where the objects are created is known as***

***HeapArea.***

***(c)Java Stack Area:***

***=>The partition where methods are loaded for execution is***

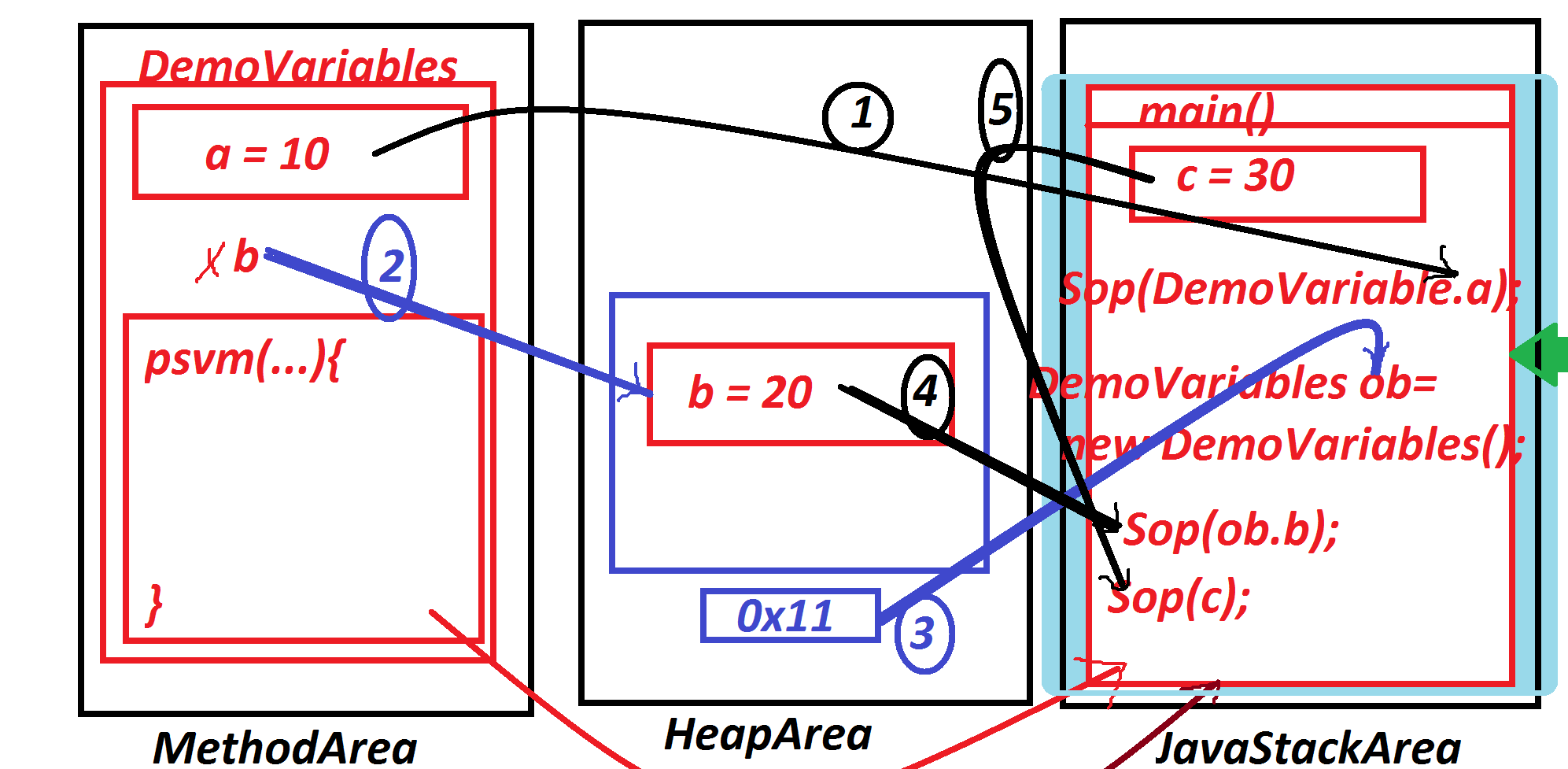
***known as JavaStackArea.***

***=>main() is the first method copied onto JavaStackArea to***

***start execution process and this main() method will call***

***remaining methods for execution.***

***Diagram:***

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