Dt: 20/7/2023 *imp JVM Architecture with Internals: =>JVM stands for Java Virtual machine and which is used to execute Java Byte code and generate result. =>JVM internally divided into three partions: 1.Class Loader SubSystem 2.Runtime Data Area 3.Execution Engine 1.Class Loader SubSystem: =>The Class Loader SubSystem will load class-file onto "Runtime Data Area" using internal loader. 2. Runtime Data Area: =>Runtime Data Area internally divided into five partitions: (a)Method Area (b)Heap Area (c)Java Stack Area (d)PC Register Area (e)Native Method Area

(a)Method Area:

- =>The partition of Runtime data area where classes are loaded is known as Method Area.
- =>while class loading static members will get the memory within the class.
- =>Once main() method got the memory within the class, then it is automatically copied onto JavaStackArea to start execution process.

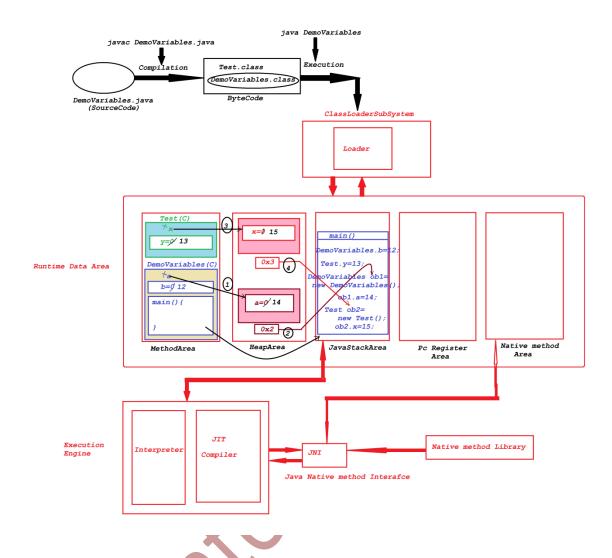
(b)Heap Area:

=>The partition of Runtime data area where objects are created is known as Heap Area.

(c)Java Stack Area:

- =>The partition of Runtime data area where methods are executed is known as Java Stack Area.
- =>main() is the first method copied onto Java Stack Area to start execution process.

Diagram:



Assignment:

Construct the application from the following layout:

