Assignment-2 YOUVA 9.1) Emploin the components of the Jok. -> These ast 5 major components inside JUM-Class loaders PC orgister Cless Native Memory doca Execution 4 Notive Method Native method Interface | Librarice Edas Joddes-It has I mains respossibilites Loading, Linking Intralization. - Main sesponsibility is taking a close & looking into the memosy (ram) for execution from secondary woward. binary data squing it in method area. - Lighting is divided in 3 parts - verification, preparat Tion, Alloution: In Verification, it will check whether the cress file is safe to execute or not.

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Vasioble of Static variable in your class. it assign a default value for that

docation, reduces stydents with specific memory

Static Wack & assigning all Static Variables. This execution starts from top to bottom & Parent to child

Methodora-

- It has sparts.

- Method a to Heap area -

- Load all close information Jum but ody one method as pale meap aspa.
- It is also could of the pad memory.

Stacks - Stacks

- teep method information, local variables.
- A separate runting stack is executed for every
- All detaily and stored here untill completion

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- It bolds information about next execution.

- It stores address of cyropothy executing Jung

Instruction.

- seponate PC register is content for every throws

- Native method stack- Thread created this kind of memory & thread pat
a wholehow world.

- This is stack that can support notice methods that are written in different Janguage.

- It is supposible for to sun particular paggion.

- It is divided in Sparts.

Cooresting it into machine code. I also interact with memory overa.

- Interpreter - Resonsible to redd, interpret & execute
jave program line by line.

- SIt compiler-- Main job is to overcome interpreter disablement of slowness during execution.

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- It works only for seprented methods not single

preformance.

- Gatbage collector-

- Old to free up memory by collecting & semilion objects from beop a rai when there is no reference

- Native method librariel-

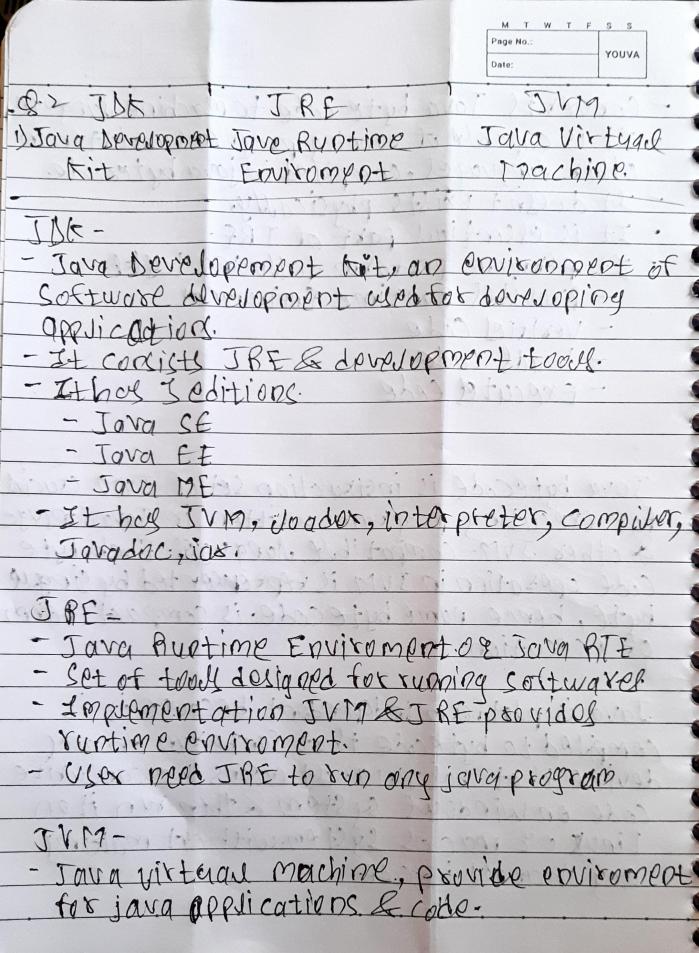
- Contains dibraties required for execution engine.

- Notive method enterface (I'M) -

- Acts as bridge between Execution Engine &

Notive rathod library.

- It also provide non-programming language
packages allowing sevelopall to write code in
Various language.



- Copyetts Java byte code to machine lunguge - It is capable of suppling programs whitten in other languages, compiled in java by tecade. - It doesn't exists physically. - It is essential part of JRE. - It perman perform following toybe. - Provides Byntime Environder - vexifiel code - load code - Expaute code