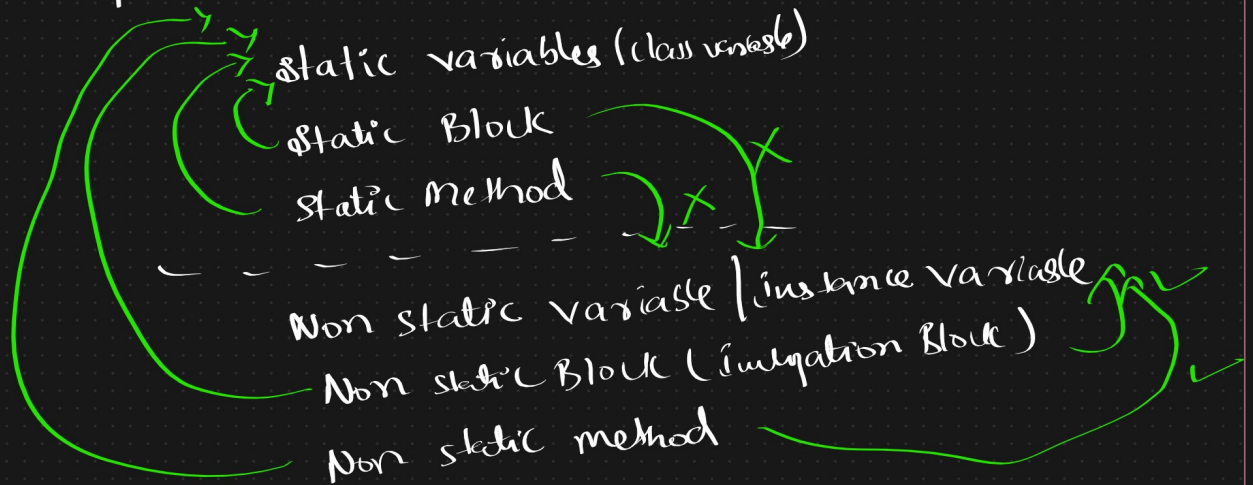
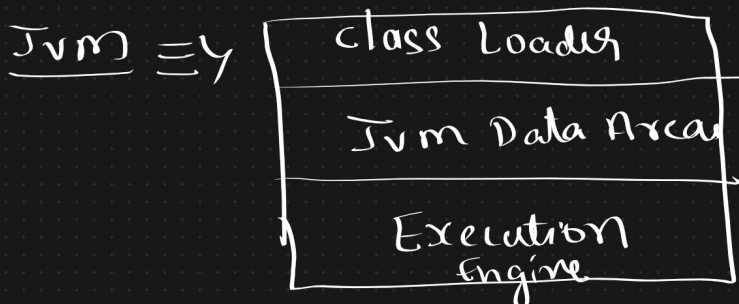
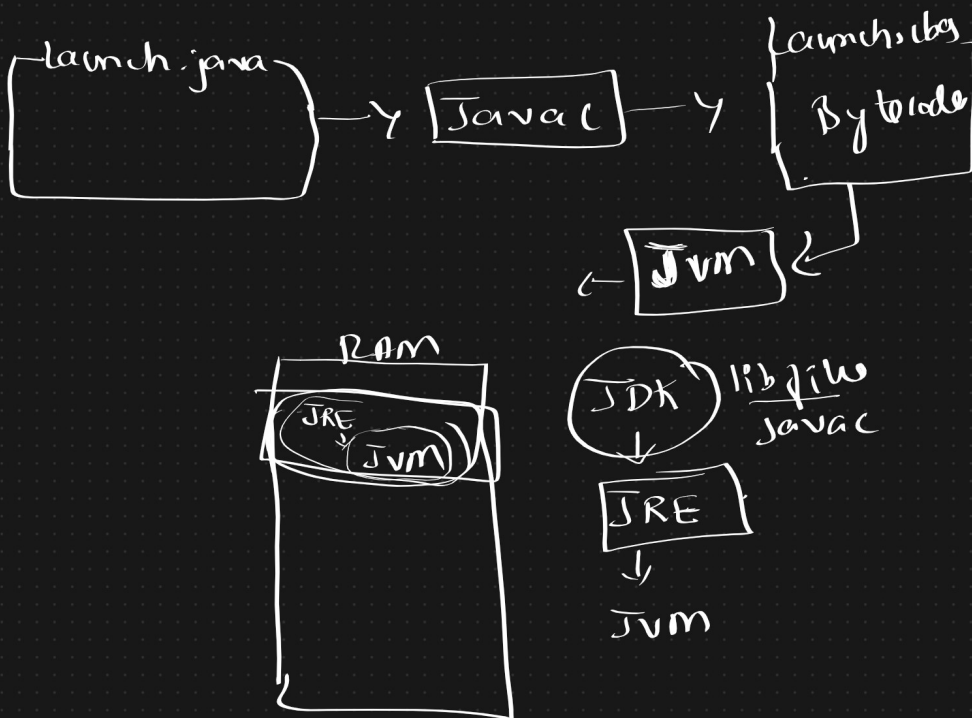


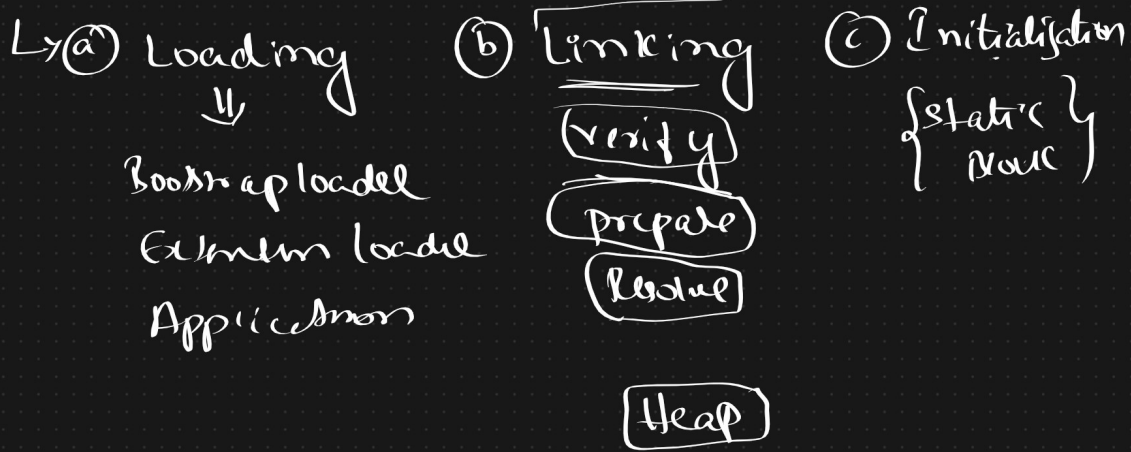
⇒ Static keyword



⇒ ③ main method { ① static var
② static Block

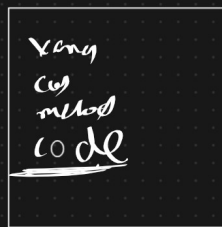


by class loader subsystem

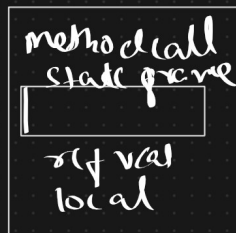


JVM Runtime Data areas

Method area



Stack area



Heap

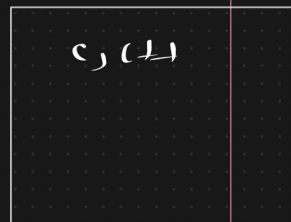


intecid;

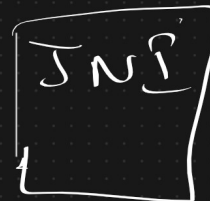
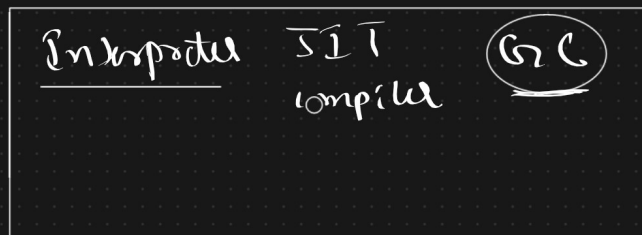
PC Register



Native stack.



Execution Engine



01001

Java → Java C → Byte code → Interpreter

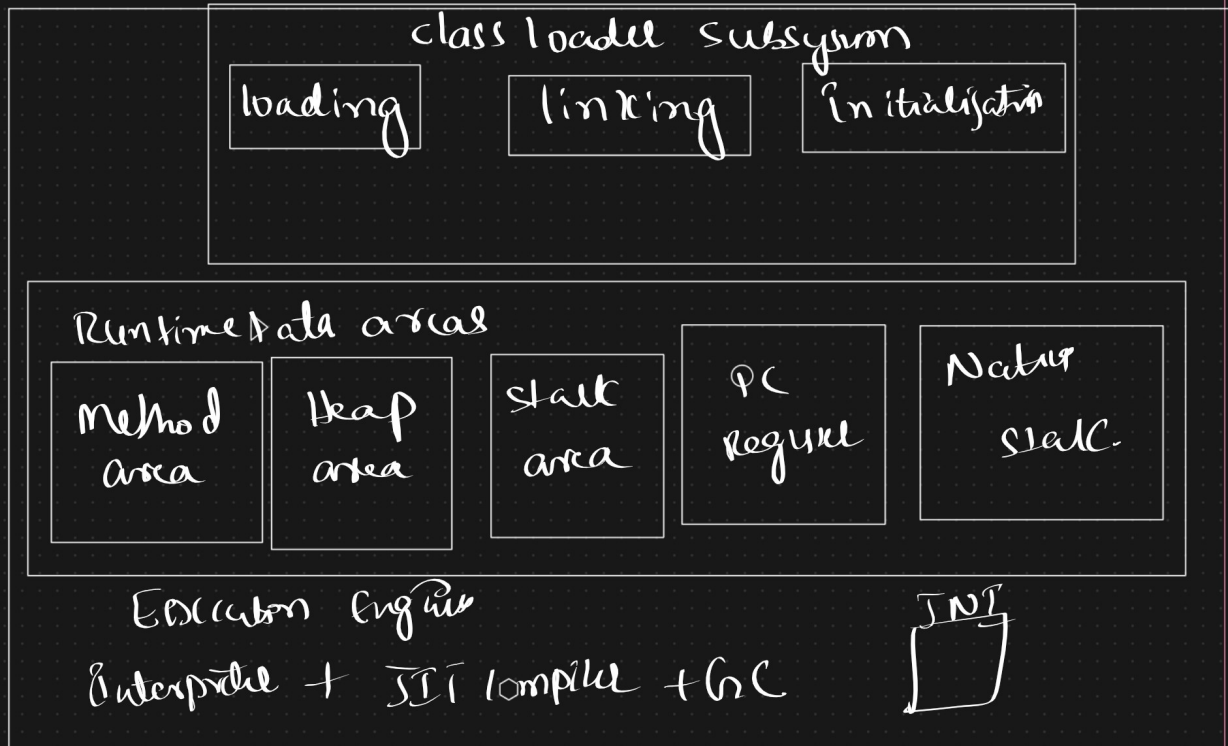
Java - Hybrid
 Both compiler & Interpreter

Interpreted
 Python
 JS

compiled
 C
 C++

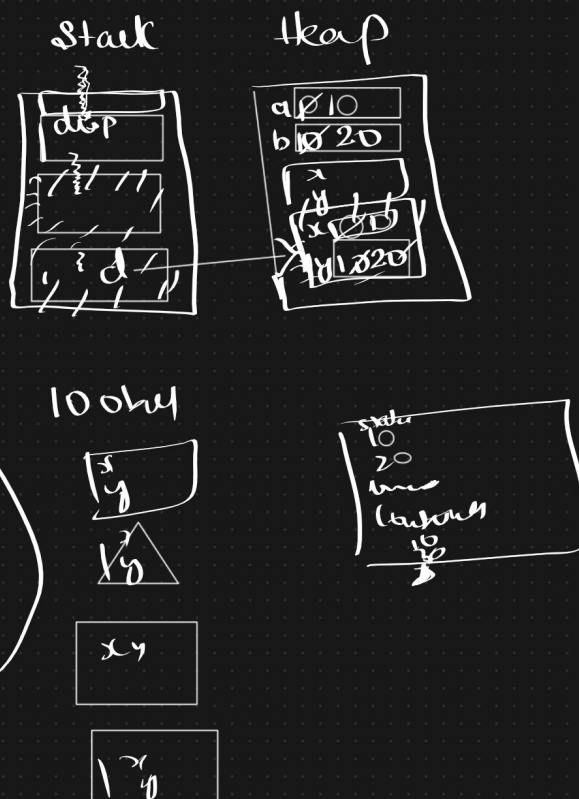
Java
 compiled + Interpreter

JVM



```
class Demo1
{
    static int a,b;
    int x,y;
    static
    {
        a=10;
        b=20;
        System.out.println("Static block");
    }
    {
        x=10;
        y=20;
        System.out.println("Non Static block/Java Block");
    }
    public Demo1()
    {
        // {
        //     x=10;
        //     y=20;
        //     System.out.println("Non Static block/Java Block");
        // }
        System.out.println("Constructor");
    }
    public static void disp()
    {
        System.out.println("Value of a : " + a);
        System.out.println("Value of b : " + b);
    }
    public void disp2()
    {
        System.out.println("Value of x : " + x);
        System.out.println("Value of y : " + y);
    }
}

public class LaunchStNet {
    public static void main(String[] args)
    {
        Demo1.disp();
        //Demo1.disp2();
        Demo1 d=new Demo1();
        d.disp2();
        //d.disp();
    }
}
```



Note: Here, Static variable data is stored only once while class loading time and stored in heap area.

Note: Global variable values are stored separately for each object individually.
like: In above for "d" object reference values and storage is allocated in heap and referred from stack as "d" and if there is another object created like "e" at that time separate values, storage will be allocate and referred as "e".


```

import java.util.*;
class Farmer
{
    float pa;
    float td;
    float ri;
    float si;

    public void input()
    {
        Scanner scan=new Scanner(System.in);
        System.out.println("Please enter the principal amount required");
        pa=scan.nextFloat();
        System.out.println("Please enter time duration");
        td=scan.nextFloat();
        ri=2.5f;
    }

    public void compute()
    {
        si=pa*td*ri/100;
    }

    public void disp()
    {
        System.out.println("Si is : "+ si);
    }
}

public class LaunchLoan
{
    public static void main(String[] args)
    {
        System.out.println("Farmer loan application: ");
        Farmer f1=new Farmer();
        Farmer f2=new Farmer();
        Farmer f3=new Farmer();

        f1.input();
        f1.compute();
        f1.disp();

        f2.input();
        f2.compute();
        f2.disp();

        f3.input();
        f3.compute();
        f3.disp();
    }
}

```

