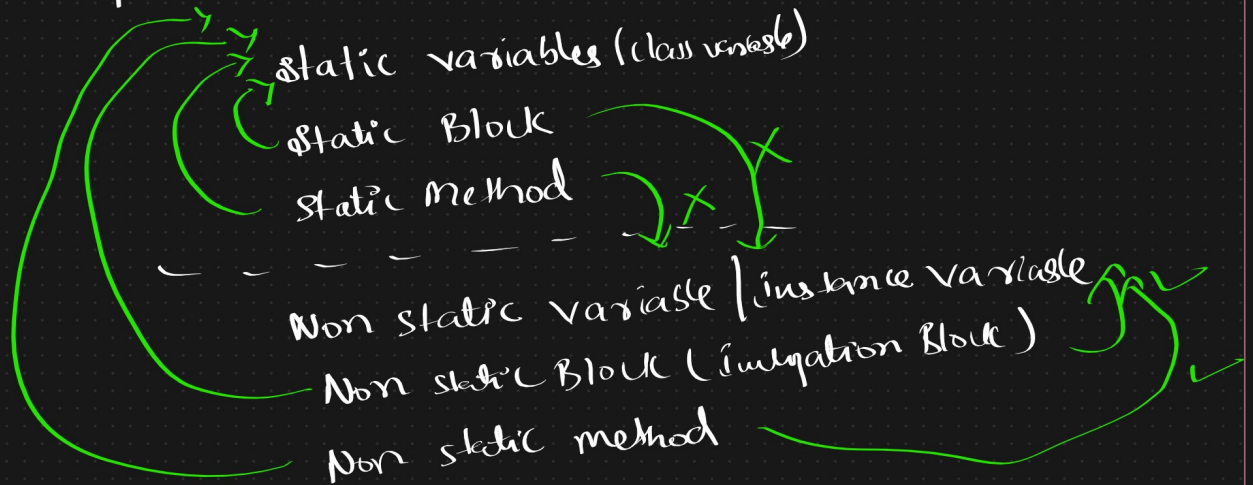
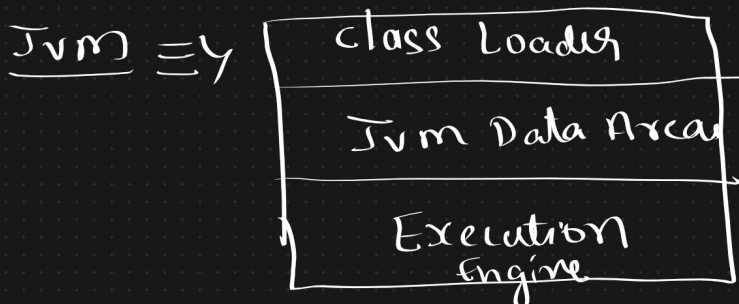
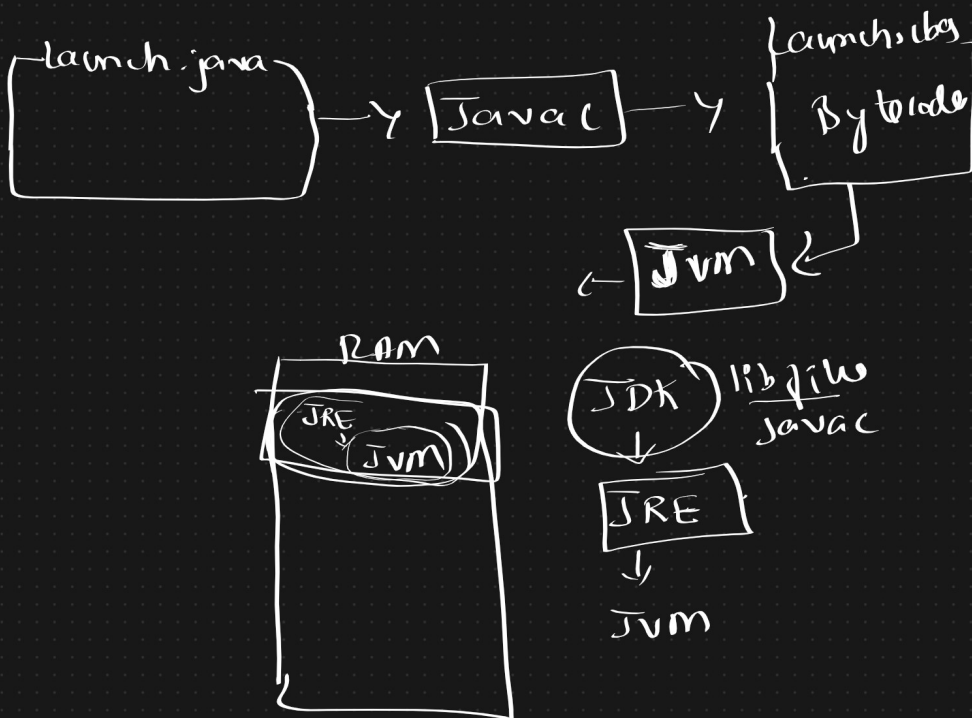


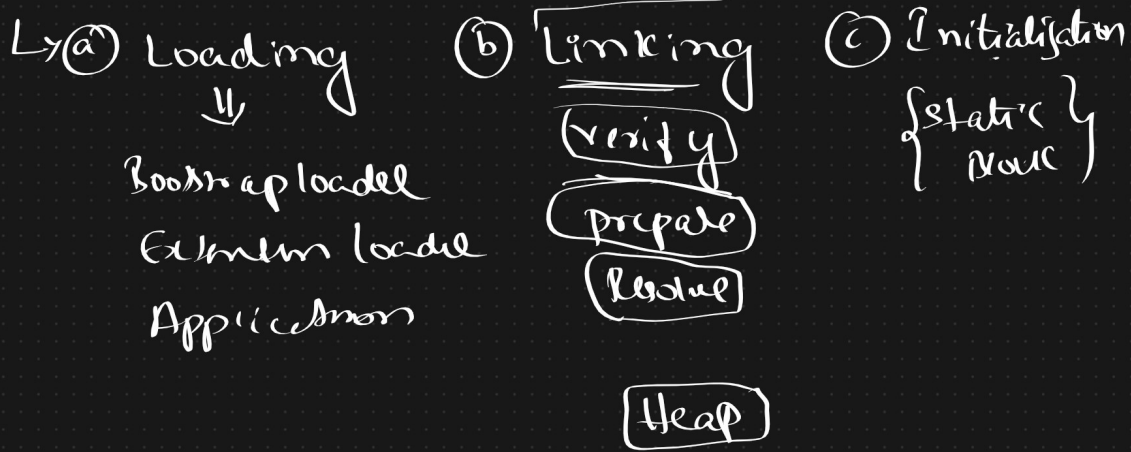
Static keyword



⇒ ③ main method { ① static var
② static Block

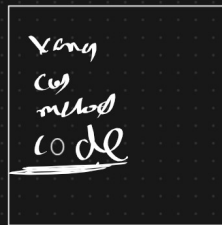


by class loader subsystem

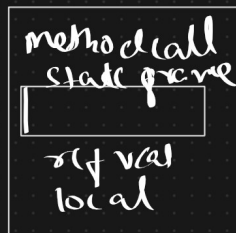


JVM Runtime Data areas

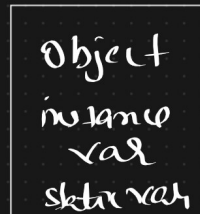
Method area



Stack area



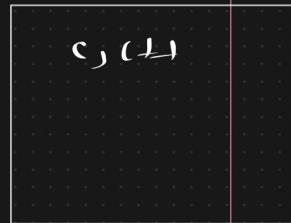
Heap



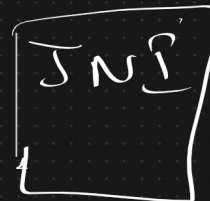
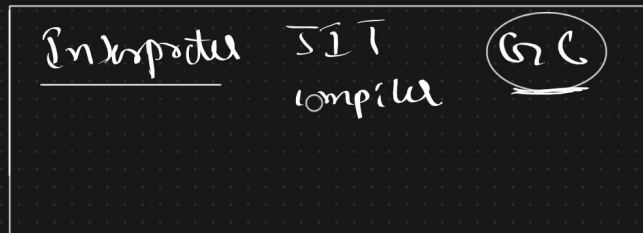
PC Register



Native stack



Execution Engine



01001

Java → Java C → Byte code → Interpreter

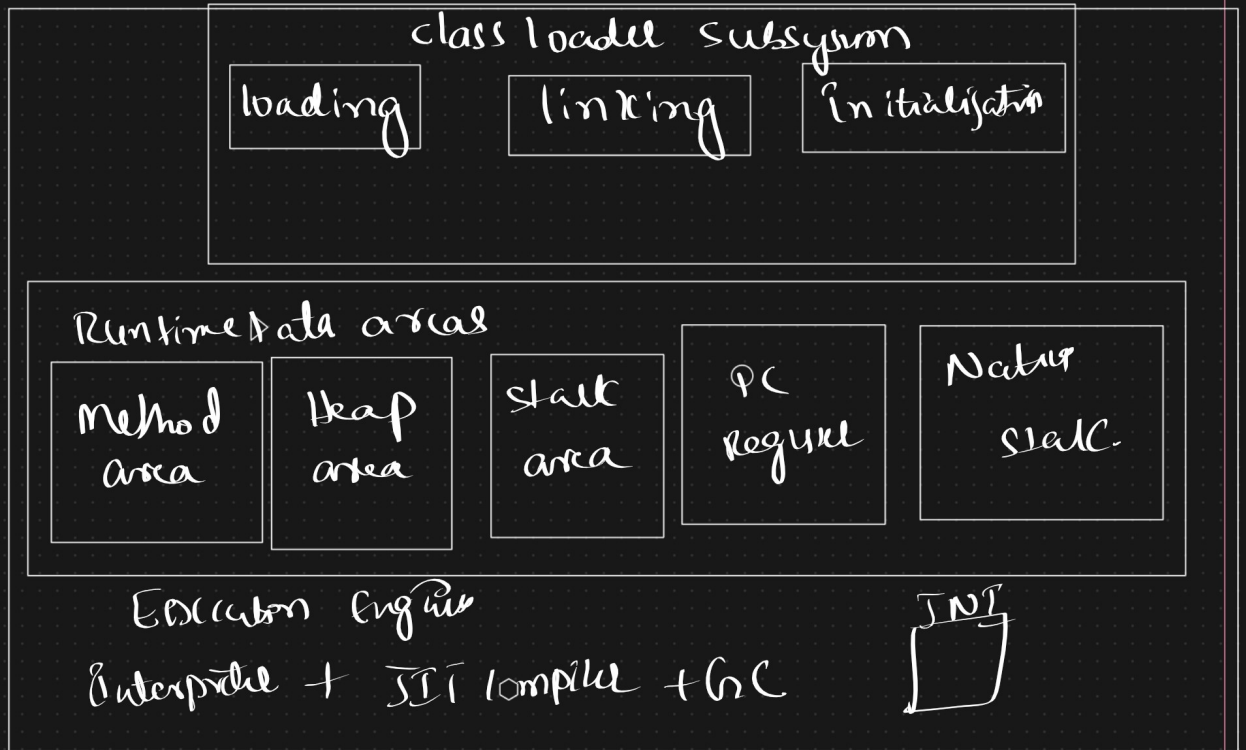
Java - Hybrid
 Both compiler & Interpreter

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);
    }

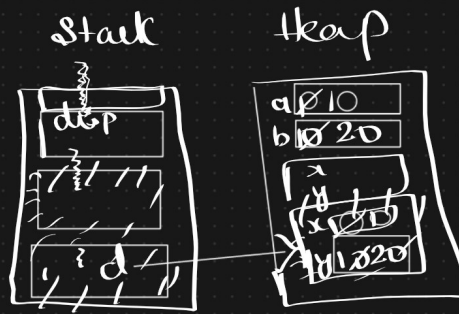
    public void disp2()
    {
        System.out.println("Value of x : " + x);
        System.out.println("Value of y : " + y);
    }
}

public class LaunchStNet {
    public static void main(String[] args)
    {
        Demo1.disp();

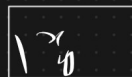
        //Demo1.disp2();

        Demo1 d=new Demo1();
        d.disp2();
        //d.disp();
    }
}

```



10 oh4




```

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();
    }
}

```

