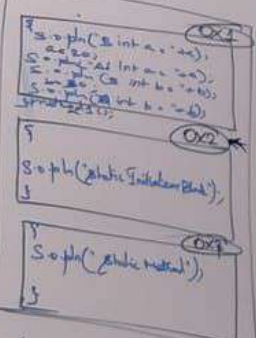
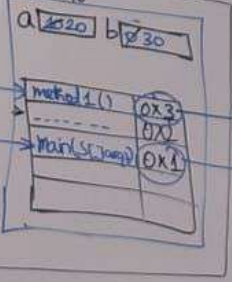


```
1 package Members;
2
3 public class Demo {
4     static int a = 10;
5     static int b;
6
7     static public void method1() {
8         System.out.println("Static Method");
9     }
10
11     static {
12         System.out.println("Static Initializer Block");
13     }
14
15     public static void main(String[] args) {
16         System.out.println("Before int a = " + a);
```

Method Area



Class Static Area



```
10
11
12 static {
13     System.out.println("Static Initializer Block");
14 }
15
16 public static void main(String[] args) {
17     System.out.println("Before int a = "+a);
18     a=20; //re-modified
19     System.out.println("After int a = "+a);
20     System.out.println("Before int b = "+b);
21     b=30; //static var initialized
22     System.out.println("After int b = "+b);
23     method1();
24 }
25
```

```
14 }
15 class MainAccess {
16     //Code Re-useability
17     public static void main(String[] args) {
18         Mobile m1=new Mobile();
19         System.out.println(m1);
20
21         Lap l1=new Lap();
22         System.out.println(l1);
23
24         Product p1=new Product();
25         System.out.println(p1);
26     }
27 }
28 }
29 }
```

```
1 package Members;
2
3 class StudentDriver {
4
5     public static void main(String[] args) {
6         Student.sname="Dilip";
7         Student.id =123;
8         Student.studentDetails();
9
10        Student.sname="Jagan";
11        Student.id=101;
12        Student.studentDetails();
13
14        Student.studentDetails();//Dilip - 123 old data removed
15    }
16 }
```



```
1 package Members;
2
3 class Student {
4     static {
5         System.out.println("Welcome to SRM University");
6     }
7     static String sname;
8     static int id;
9
10    static public void studentDetails() {
11        System.out.println("-----");
12        System.out.println("Student Name : " + sname);
13        System.out.println("Student ID : " + id);
14        System.out.println("-----");
15    }
16 }
```

Members

- static members
- non static members

Static members

- static is also called as
Keyword @ Modifier.

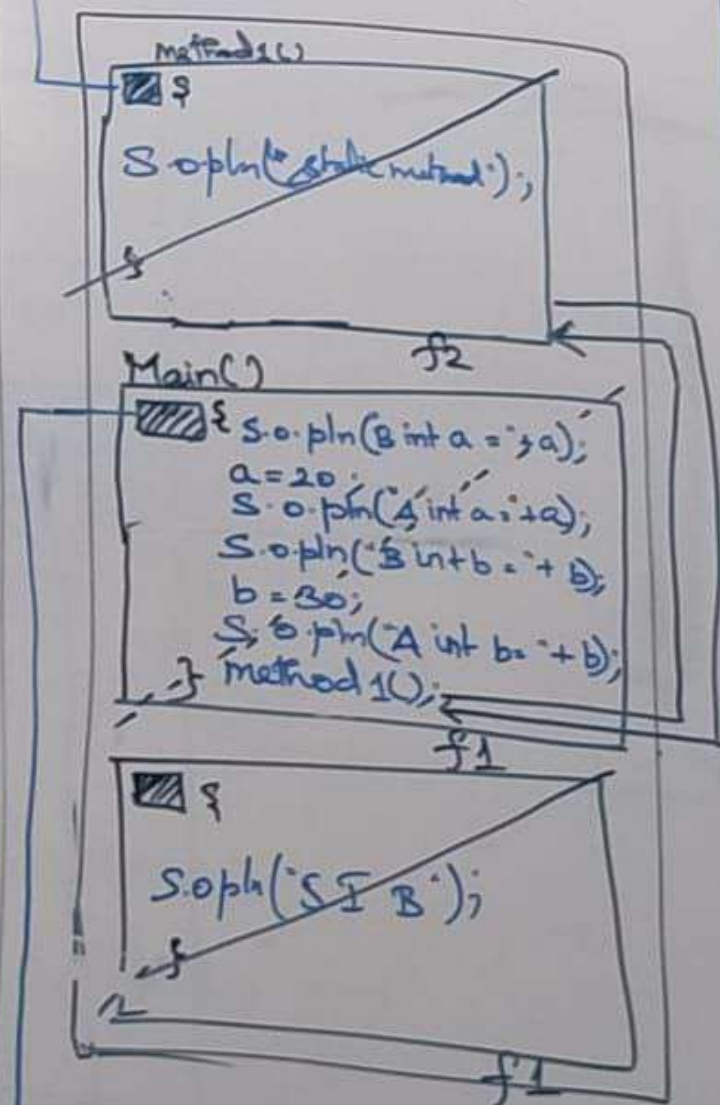
Syntax

- * static variable → static datatype Var_Name = Value/Address;
- * static Method → static [AM] returntype method Name([formal])
{ }
- * static Anonymous Block /
Static Initializer Block. → static
{ }

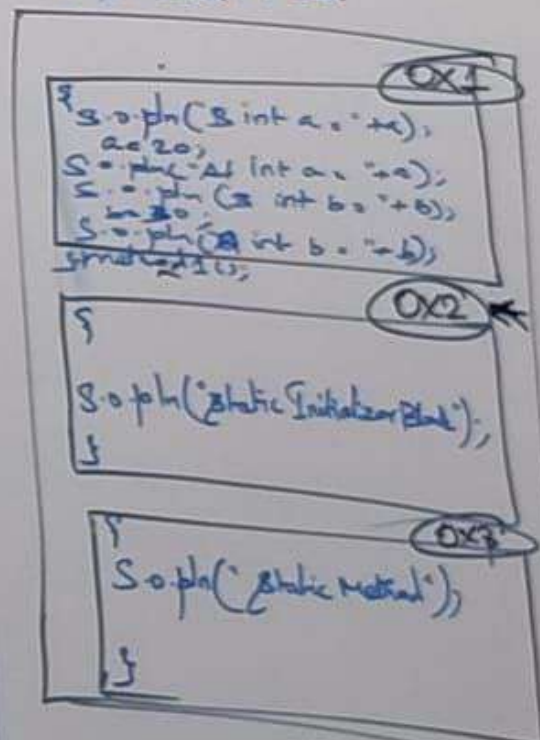
SIB

```
B int a = 10  
A int a = 20  
B int b = 0  
A int b = 30  
static Method
```

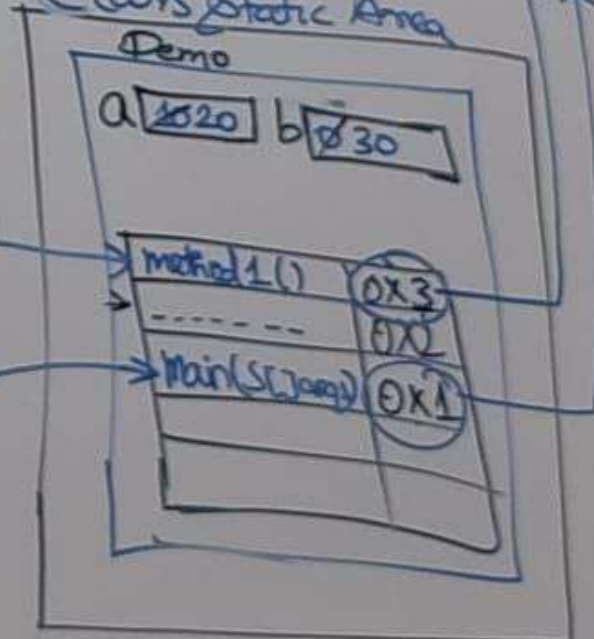
Stack Area



Method Area

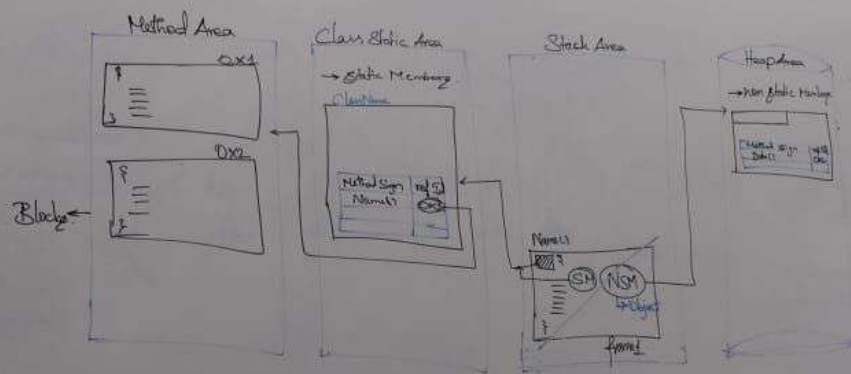


Class Static Area



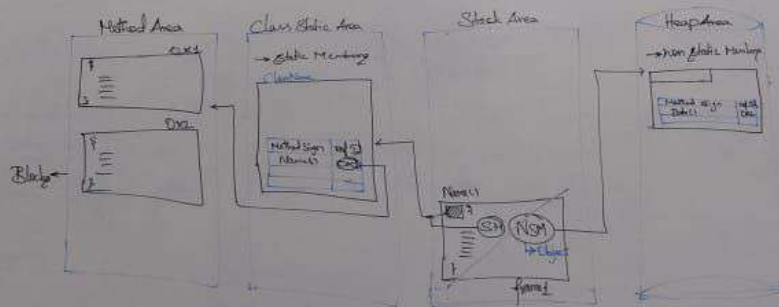
JVM Architecture

- * Method Area
- * Class Static Area
- * Stack Area
- * Heap Area



JVM Architecture

- * Method Area
- * Class Static Area
- * Stack Area
- * Heap Area



Class

- Blue Print (create an object)
- n no of objects
- In same class
- We can create n no of
Object → [Identical object]
(or)
Similar object

Class classmate

- Object
 - Class Block
 - Method Block

Object

Physical Appearance

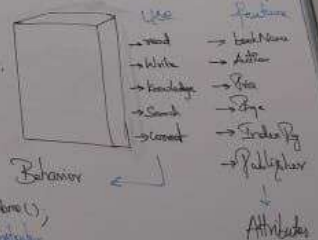
How to create Object for class?

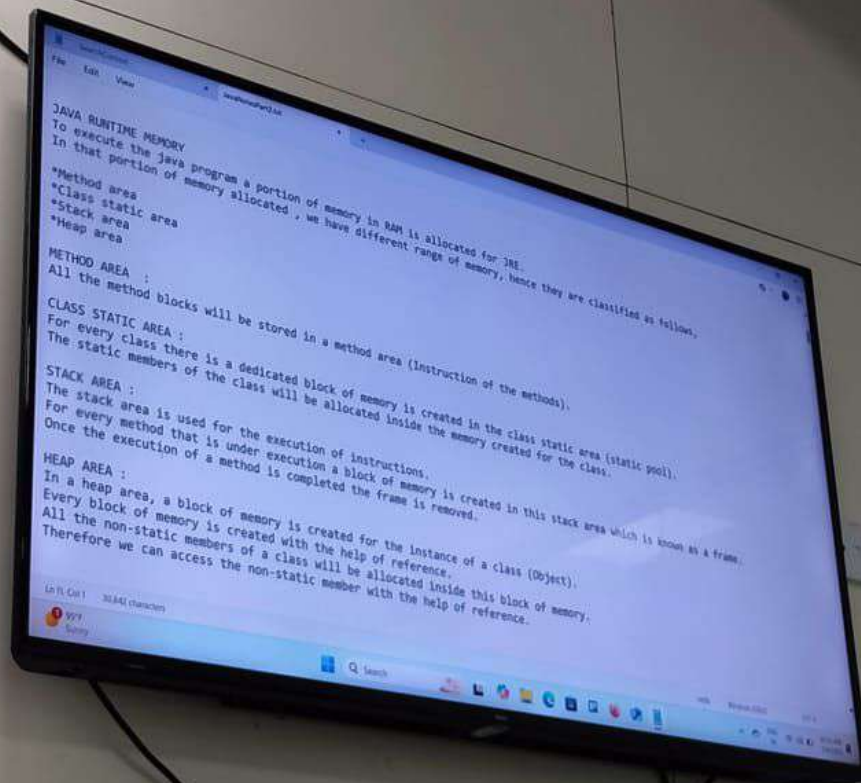
Step 1: Use Existing class (or) Create a class

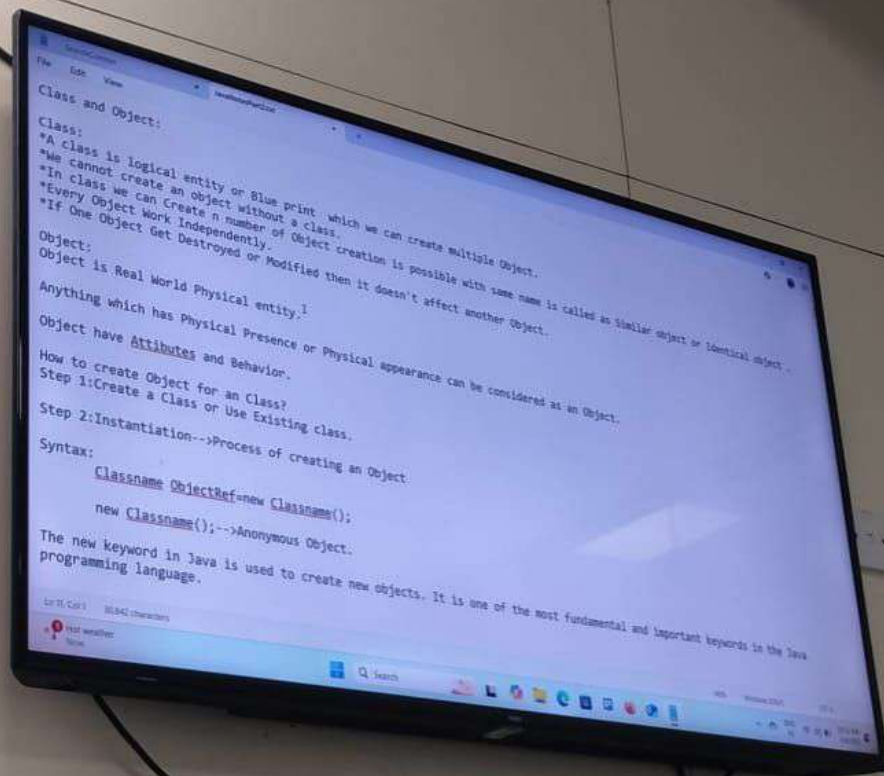
Step 2: Implementation

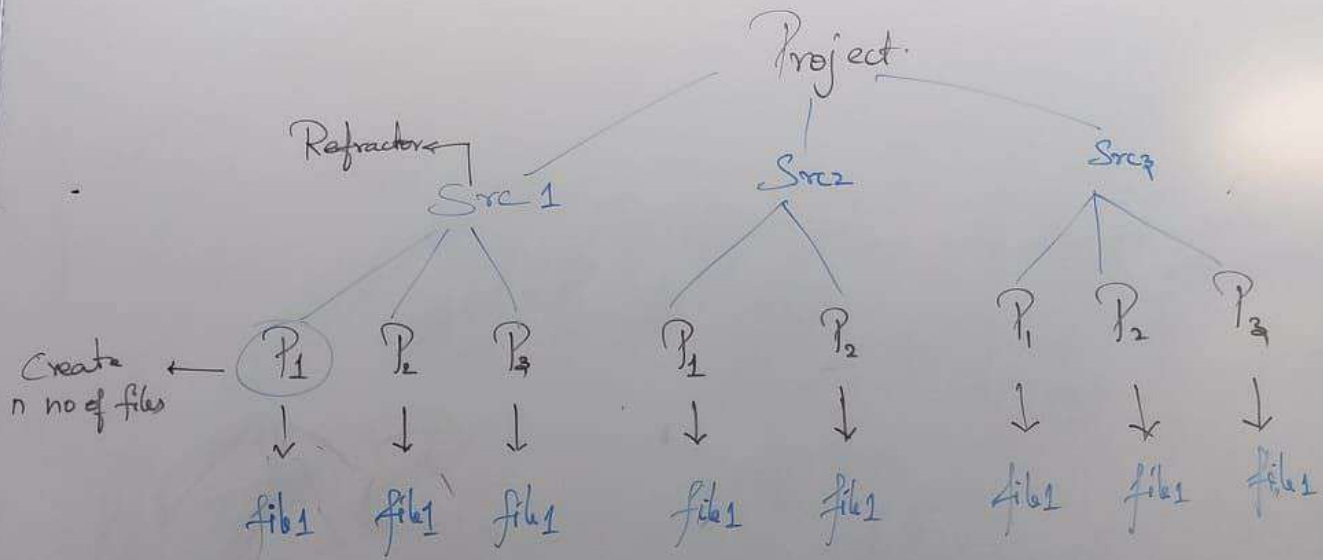
Step 3: Classmate obj reference = new classname(),
Refered constructor

Anonymous Object









→ Hint → Word → Ctrl + space → Suggestion
↓

→ ~~Command~~