

12_10_2022_DA_Discussion_main - Notepad

tendulkar

what is the purpose of giving arguments at the time of execution,

Code ----> 3 phases before releasing the code to the users

During SpringBoot session we will demonstrate
Development -----> few inputs associated with developer

Testing ----> few inputs associated with testengineer

Production ----> few inputs associated with QA



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*12_10_2022_QA_Discussion_main0 - Notepad

either jvm or jre comes into play first ?

code ----> compiled (compiler will come into picture) ----> .class file(bytecodes).class should be ready for execution

NAME

+++++

JRE(java runtime environment)
=> JVM + libraries

+

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you said (main) is the name of the method is it compulsory to use (main) as the name method or any other name?

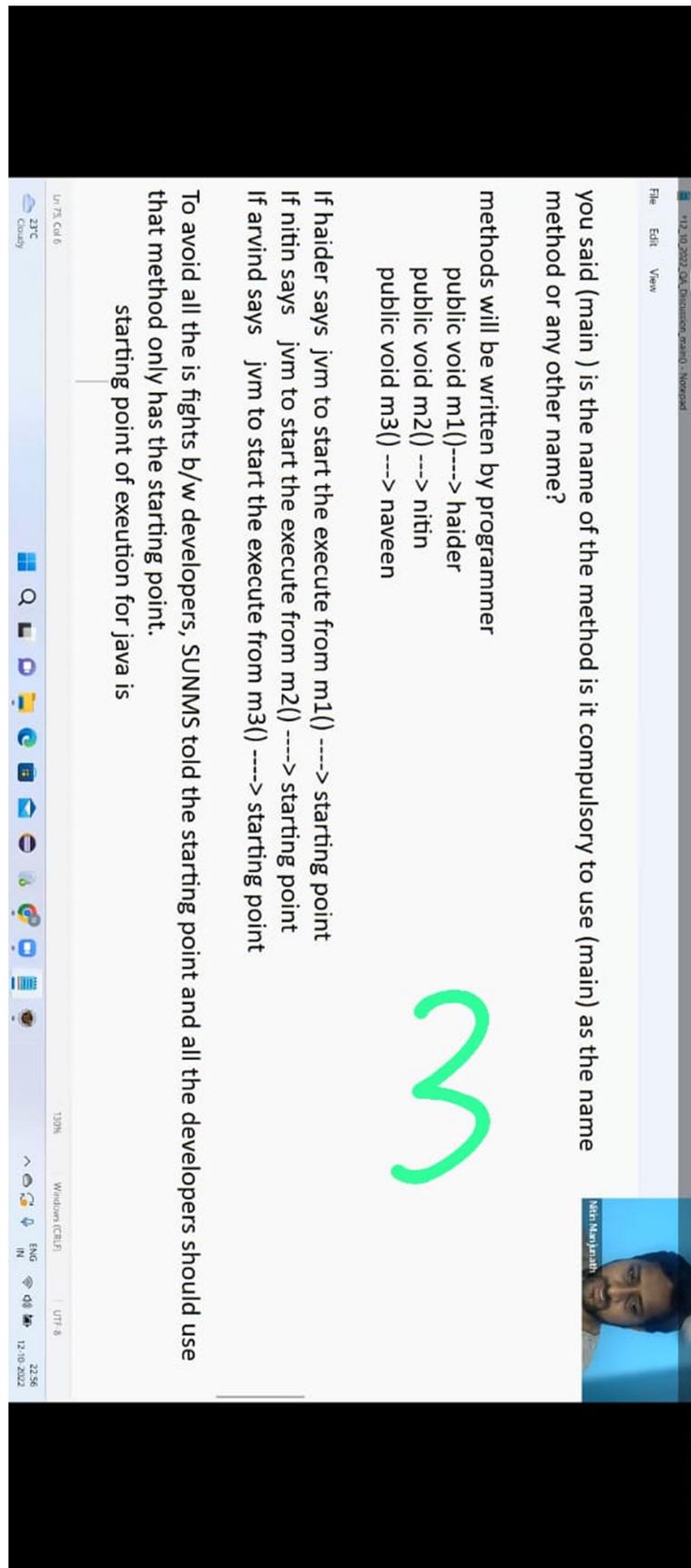
methods will be written by programmer

```
public void m1()--> haider  
public void m2() --> nitin  
public void m3() --> naveen
```

If haider says jvm to start the execute from m1() --> starting point
If nitin says jvm to start the execute from m2() --> starting point
If arvind says jvm to start the execute from m3() --> starting point

To avoid all the confusions b/w developers, SUNMS told the starting point and all the developers should use that method only has the starting point.

starting point of execution for java is



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File Edit View

```
public void m2() ---> nitin
public void m3() ---> naveen
```

If haider says jvm to start the execute from m1() ---> starting point
If nitin says jvm to start the execute from m2() ---> starting point
If arvind says jvm to start the execute from m3() ---> starting point

To avoid all the is fights b/w developers, SUNMS told the starting point and all the developers should use that method only has the starting point.

starting point of execution for java is

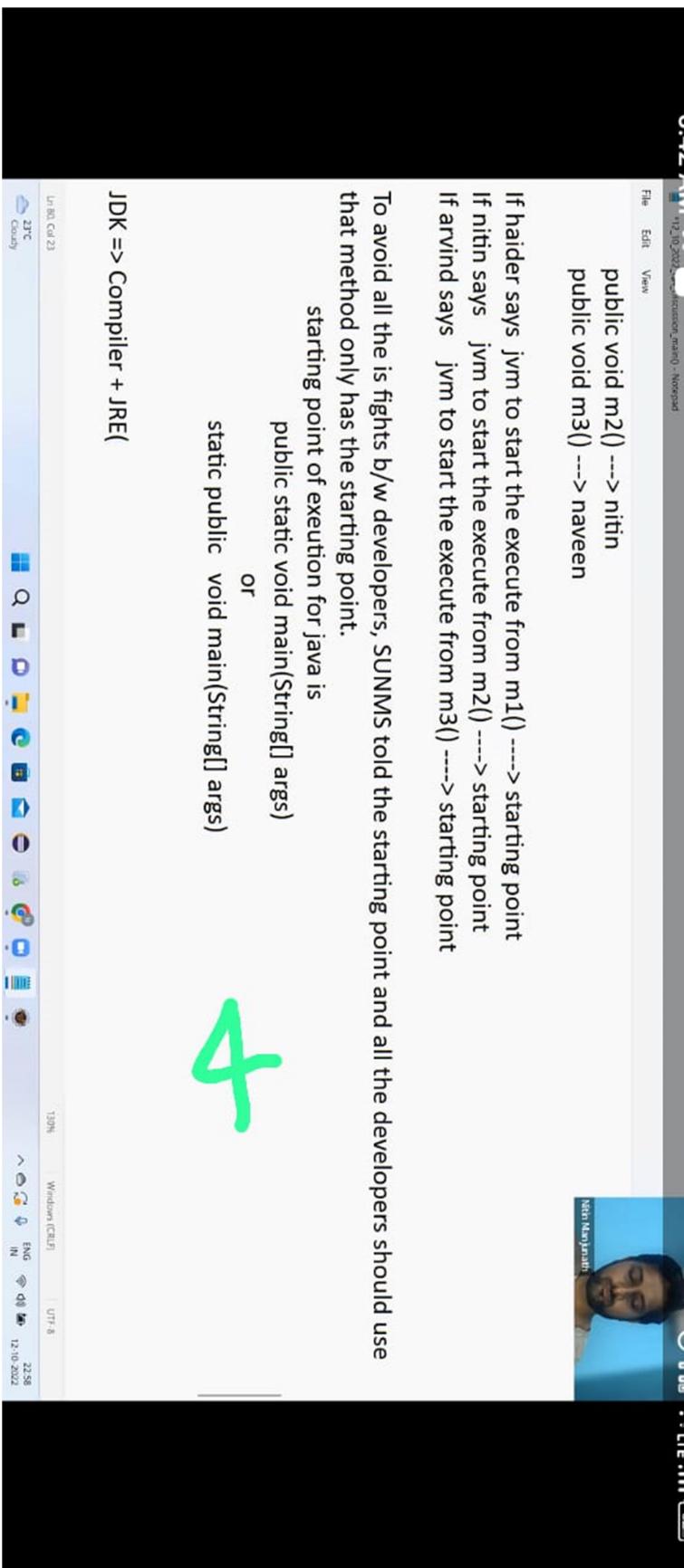
```
public static void main(String[] args)
```

or

```
static public void main(String[] args)
```

JDK => Compiler + JRE(

4



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12-10-2022_OA_Discussions_main - Notepad
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JDK => Compiler + JRE(jvm(JIT compiler) +library tools)

Note: JDK is required for developers as they write the code and run the code

JRE is required for endusers as they only run the code.

how type of data checked by the compiler during compilation time in dynamically typed?
statically typed => more work from compiler
dynamically typed => more work at the runtime or during execution

java is statically typed or type checking

byte,short,int,long

byte a=20;

dynamically typed

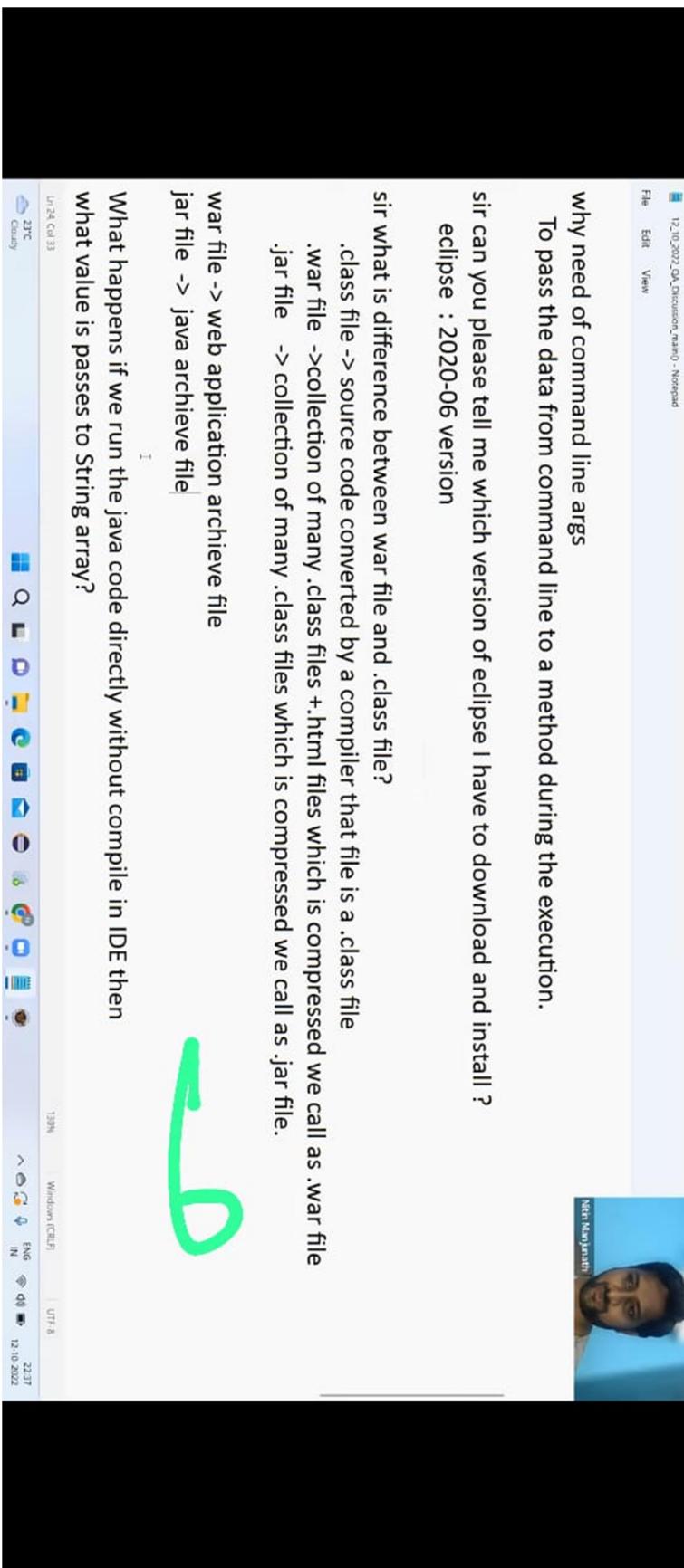
python,javascript(becoz we don't have datatype there)

statically type

c,c++,java

VS

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*12_10_2022_QA_Discussion_main0 - Notepad

What happens if we run the java code directly without compile in IDE then what value is passes to String array?

what is difference between print and println ?

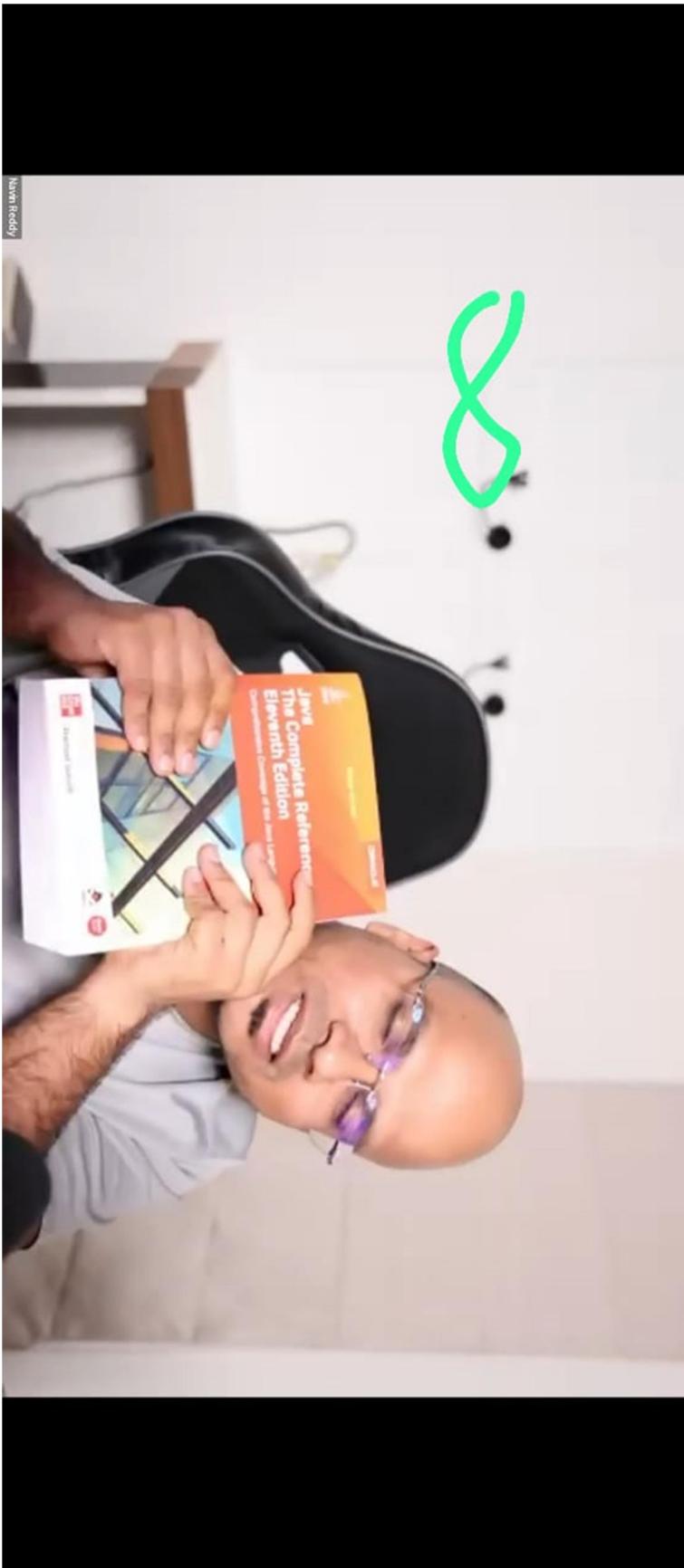
```
System.out.println("sachin");
System.out.println("tendulkar");
output:: sachin
tendulkar
```

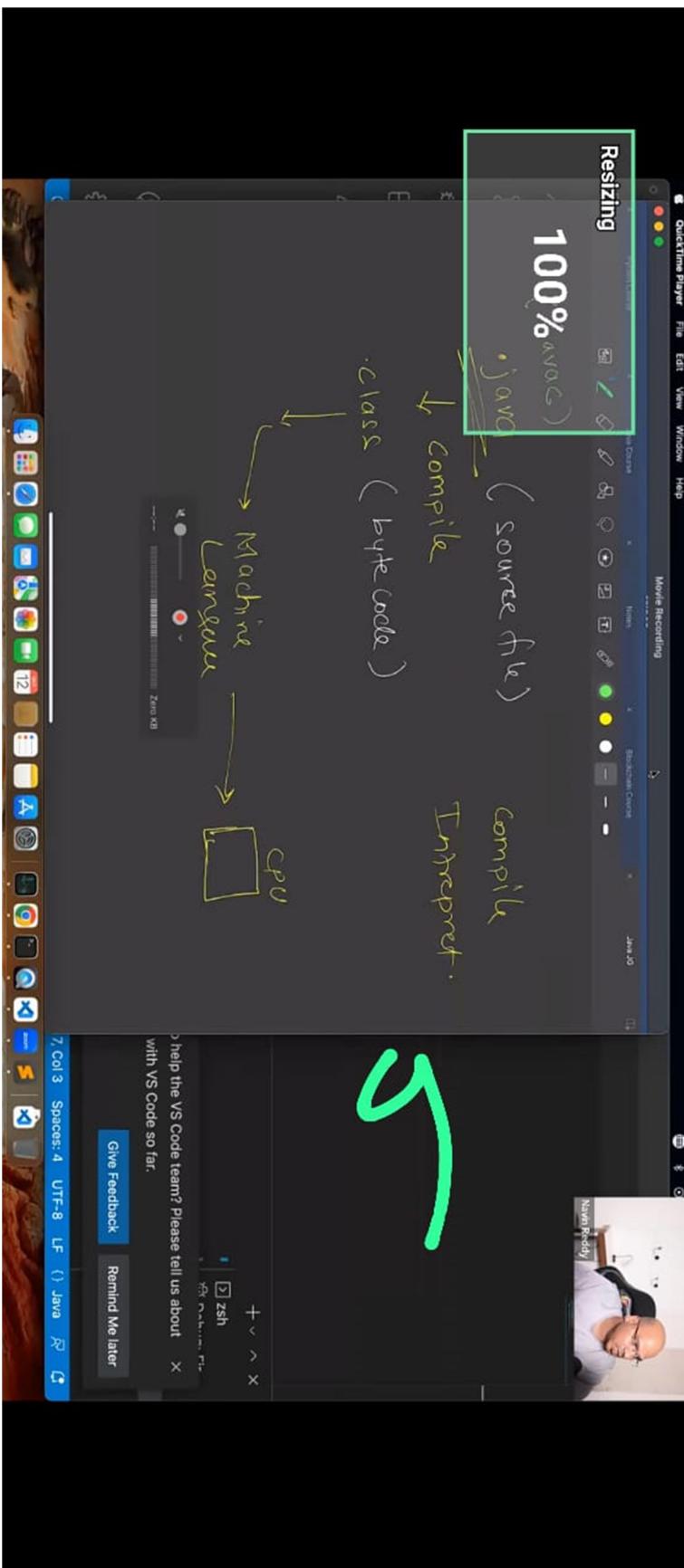
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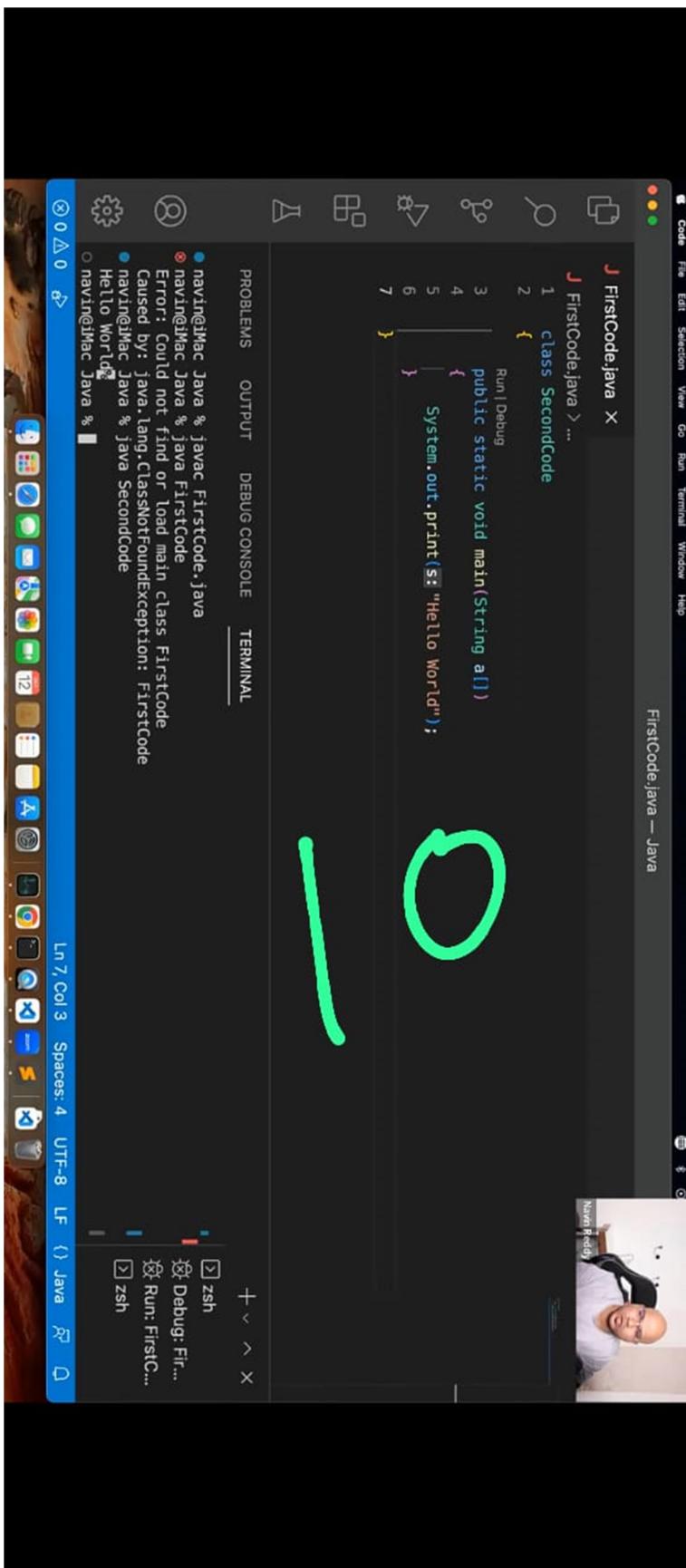
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12_10_2022_QA_Dimension_main - Notepad

File Edit View

Nitin Nareshth

why need of command line args
To pass the data from command line to a method during the execution.

sir can you please tell me which version of eclipse I have to download and install ?
eclipse : 2020-06 version

sir what is difference between war file and .class file?
.class file -> source code converted by a compiler that file is a .class file
.war file -> collection of many .class files +.html files which is compressed we call as .war file
.jar file -> collection of many .class files which is compressed we call as .jar file.

war file -> web application archive file
jar file -> java archive file

What happens if we run the java code directly without compile in IDE then
what value is passes to String array?

137% Windows (C:\Users\Nitin Nareshth) UTF-8

27°C Crazzy

Q L D E A M S G T B N 12_10_2022 22:36

A screenshot of a Mac desktop environment. On the left, a vertical dock contains icons for various applications like Mail, Safari, and Finder. In the center, a terminal window is open with the following Java code:

```
Terminal Shell Edit View Window Help
Visual Studio Code
Naveen - java - iShell - 00:24
Error:
cannot find symbol
  symbol: variable clear
    ^
jshell> 9 * 8
$2 => 72
jshell> System.out.print(6)
6
jshell> 5 + 72
$4 => 77
jshell> $1 + $2
$5 => 77
jshell> /
| Command: '/' is ambiguous: /list, /edit, /drop, /save, /open, /vars, /methods,
| /types, /imports, /exit, /env, /reset, /reload, /history, /debug, /help, /set,
| Type /help for help.
jshell>
```

The terminal window has a red error message at the top: "Error: cannot find symbol symbol: variable clear". A large green handwritten mark resembling a checkmark is overlaid on the terminal window. In the bottom right corner of the screen, there is a video call interface showing a person's face, with the name "Naveen Ratty" visible.

A screenshot of a Mac OS X desktop environment. In the center is a Java code editor window titled "FirstCode.java" with the file "FirstCode.java" open. The code contains a class named "SecondCode" with a main method that prints "Hello World". The editor has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, and TERMINAL. The TERMINAL tab is active, showing the command "javac FirstCode.java" being run and an error message indicating that the main class "FirstCode" could not be found. Below the terminal is a small video player window showing a video of a person. The dock at the bottom of the screen contains various application icons.

FirstCode.java

```
1  class SecondCode
2
3      public static void main(String a[])
4          {
5              System.out.print(s: "Hello World");
6          }
7 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

navin@iMac Java % javac FirstCode.java
Error: Could not find or load main class FirstCode
Caused by: java.lang.ClassNotFoundException: FirstCode
navin@iMac Java % java SecondCode
Hello World

navin@iMac Java %

Ln 7, Col 3 Spaces: 4 UTF-8 LF () Java ⌂

④ 0 Δ 0 ⌂

A screenshot of a Mac desktop interface. At the top, there's a menu bar with options like Code, File, Edit, Selection, View, Go, Run, Terminal, Window, and Help. Below the menu is a tab labeled "FirstCode.java — Java". The main window contains Java code:

```
1 public class FirstCode
2 {
3     public static void main(String a[])
4     {
5         System.out.print(s: "Hello World");
6     }
7 }
```

The code editor has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, and TERMINAL. The TERMINAL tab is active, showing the following output:

- navin@iMac Java % javac FirstCode.java
- navin@iMac Java % java FirstCode
- Error: Could not find or load main class FirstCode
- Caused by: java.lang.ClassNotFoundException: FirstCode
- navin@iMac Java % java SecondCode
- Hello World
- navin@iMac Java %

Below the terminal output, there's a status bar with Ln 1, Col 23, Spaces: 4, UTF-8, LF, () Java, and a small icon. A large green hand-drawn number '14' is overlaid on the screen.

A screenshot of a Java code editor interface, likely VS Code, showing a file named `FirstCode.java`. The code contains a simple `Hello World` application. A large green checkmark is drawn over the code area. The terminal below shows the command `javac FirstCode.java` was run successfully.

```
FirstCode.java — Java
FirstCode.java X
J FirstCode.java > ↵ Something
1 class SecondCode
2 {
3     public static void main(String a[])
4     {
5         System.out.print(s: "Hello World");
6     }
7 }
8 class Something
9 {
10
11 }
```

TERMINAL

```
navin@Mac Java % javac FirstCode.java
navin@Mac Java %
```