

Basic Fundamental Programming

Day 1: Sep 2021

Kiran Waghmare



*new 1 - Notepad++

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MOM 2021.txt new 1 P3.java

1 Day1:20.09.21

2 -----

3 Java

4 -General Purpose Programming Language

5 -OOPs(Object Oriented Programming)

6 -DEveloped by Sun Microsystem in 1991.

7 -Inventor for Java is James Gosling

8 -Initial name of Java is OAK

9 -special features of Java : reliable, portable & robust.

10 -powerful language

11

12

13 Java Editions

14 -----

15 J2SE:Java 2 Standard Edition

16 J2EE:Java 2 Enterprise Edition

17 J2ME:Java 2 Micro Edition

18 Java FX

19

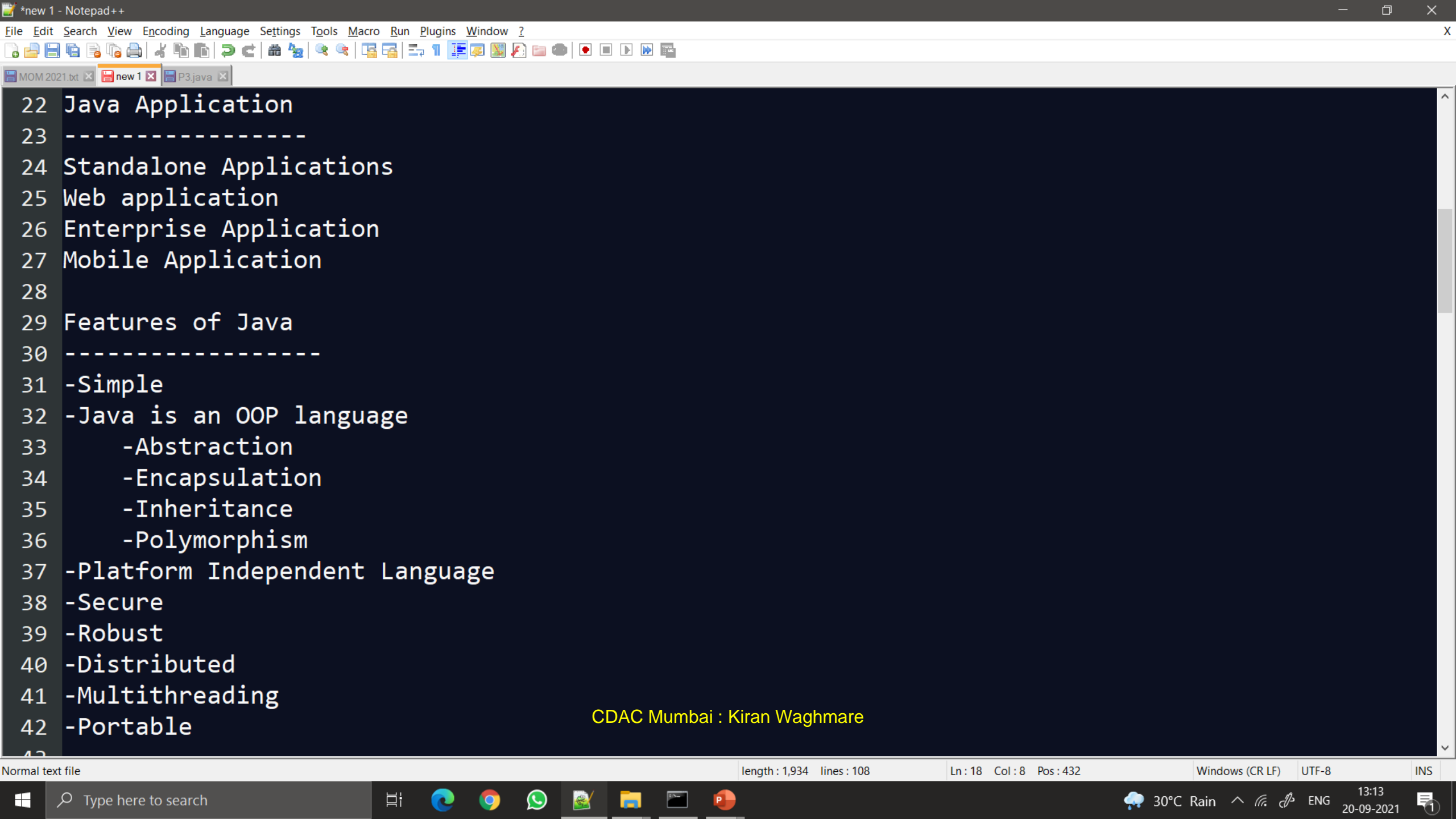
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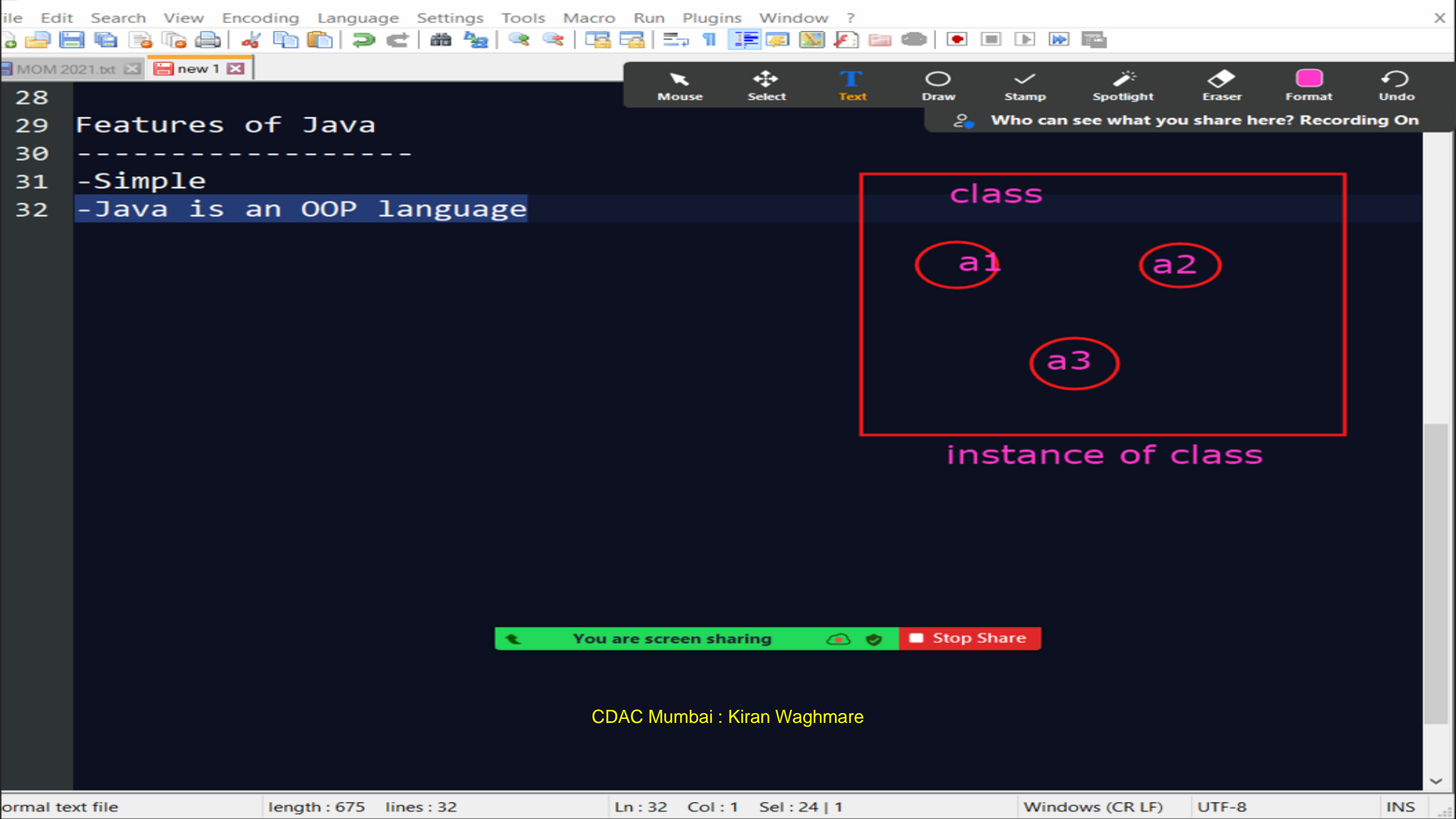
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```
22 Java Application
23 -----
24 Standalone Applications
25 Web application
26 Enterprise Application
27 Mobile Application
28
29 Features of Java
30 -----
31 -Simple
32 -Java is an OOP language
33     -Abstraction
34     -Encapsulation
35     -Inheritance
36     -Polymorphism
37 -Platform Independent Language
38 -Secure
39 -Robust
40 -Distributed
41 -Multithreading
42 -Portable
```

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Features of Java

-Simple
-Java is an OOP language
 -Abstraction
 -Encapsulation
 -Inheritance
 -Polymorphism

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Who can see what you share here? Recording On

class

x,y

sum()

main()

a1

instance of class

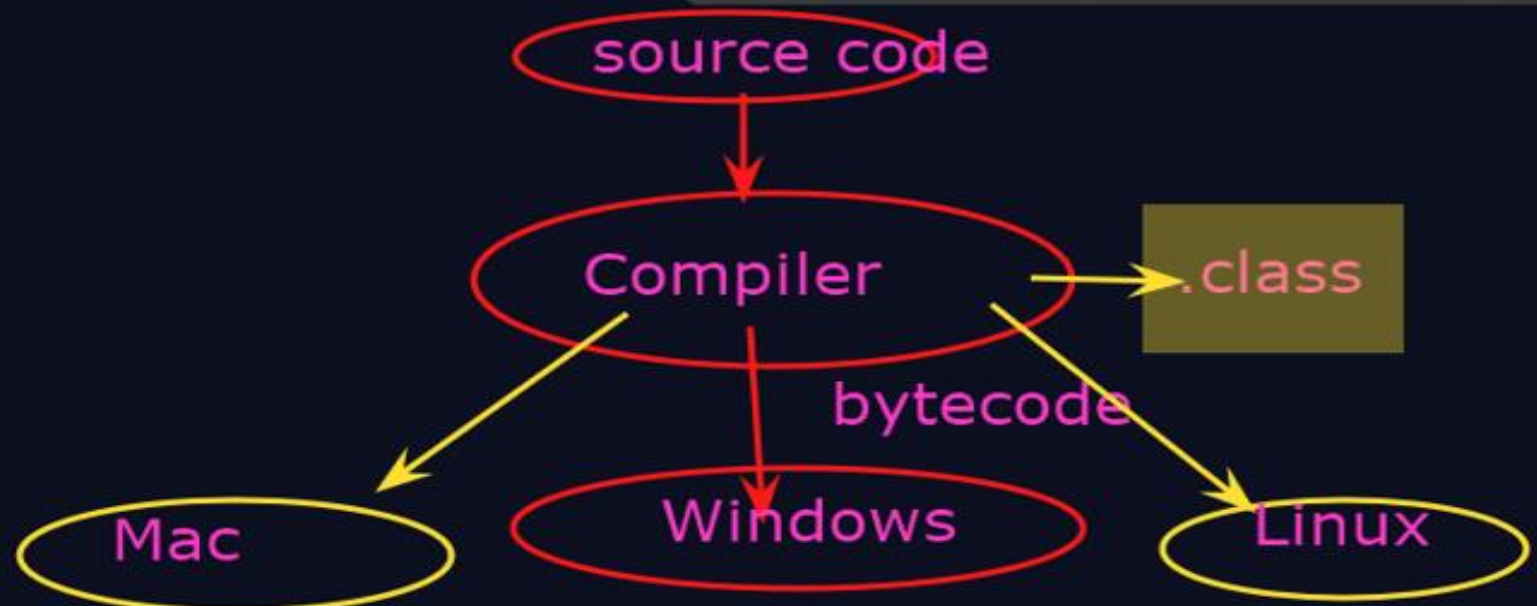
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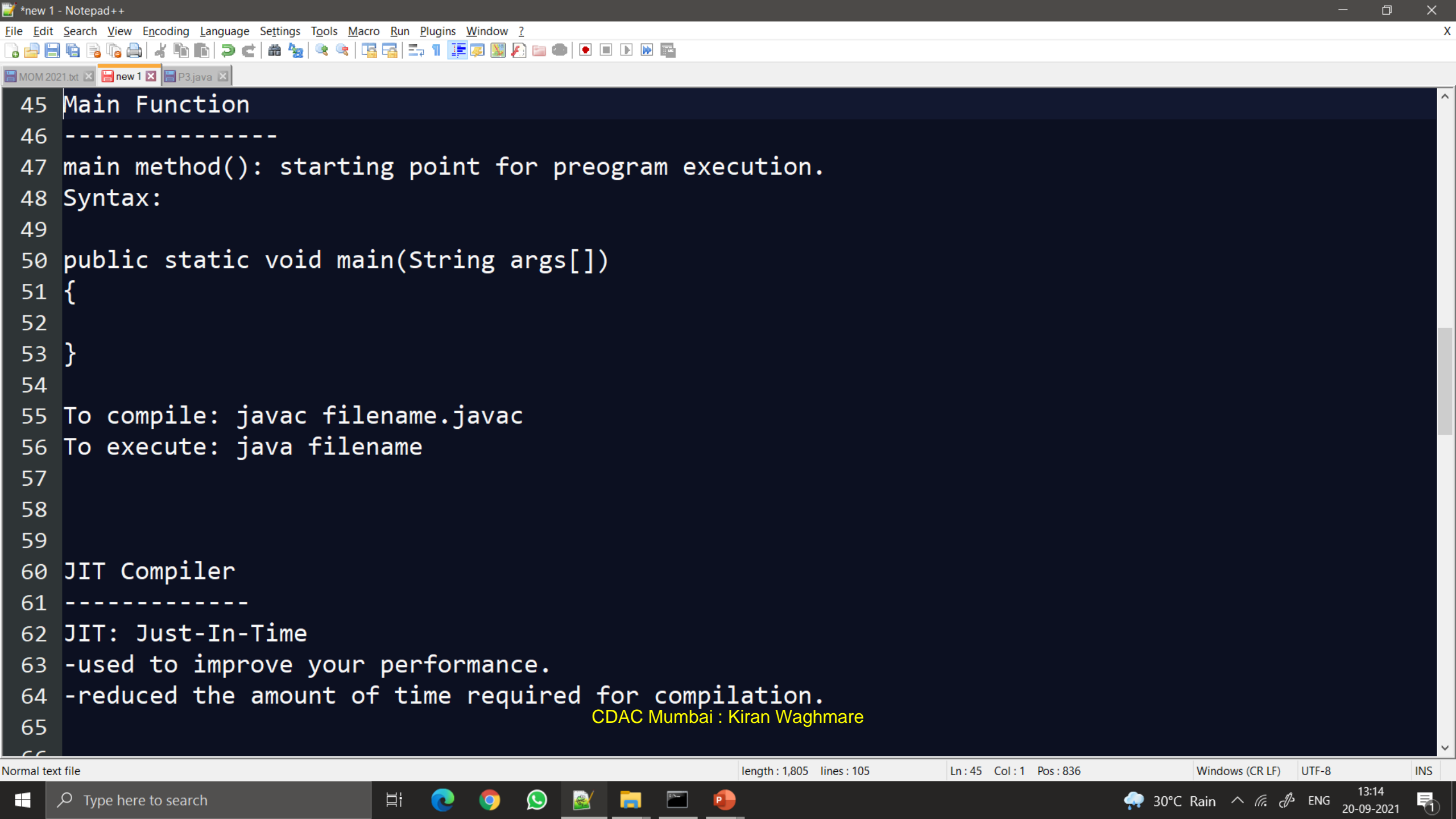
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37 -Platform Independent Language



WORA:Write once & Read anywhere



49
50
51
52
53
54

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

```
{  
}  
}
```

method modifier

no need to create any object

return type

method name

Data type

size

datatype name

parameters



Mute



Stop Video



248

Participants



9

Chat



New Share



Pause Share



Annotate



Remote Control



More



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Format

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Who can see what you share here? Recording On

1 class P1

2 {

3 public static void main(String args[])

4 {

5 System.out.println("Welcome to CDAC Mumbai!");

6 }

7 }

reference object: out

lang

io

class properties methods

Java

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Who can see what you share here? Recording On

70 JDK:Java Developemnt Kit
71 JRE: Java Runtime Environment
72 JVM: Java Virtual Machine

JDK

compile +

JRE

JVM+API Class lib

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Redo

Clear

Save

Who can see what you share here? Recording On

MOM 2021.txtnew 1P1.java

70JDK:Java Developemnt Kit
71JRE: Java Runtime Environment
72JVM: Java Virtual Machine

JRE

-JVM
-RCL (Runtime Class Lib)
-UIT(User Interface Toolkit)

JDK

-javac
-java
-javah
-javadoc
-jdb

JDK

JRE

JVM

compile +

+

API Class lib

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72

73 API : Application Programming Interface

74 -----

75 Types of Packages

76 1. Inbuilt

77 -----

78 Syntax:

79 import java.lang.*;-->default

80 import java.util.Scanner;

81 import java.io.*;

82

83 Types of packages

84 -Language Packages

85 -Utilities Packages

86 -Input/Output Packes

87 -Networking Packages

88 -AWT Packages

89 -Applet Packages

90

91 2.User defined

92

93 Syntax:

94 package Test.cdac;

95

96

1,940 lines : 107

Ln : 96 Col : 1 Pos : 1,751

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Command Prompt

C:\Test>java P3.java

C:\Test>java P3

Welcome to CDAC Mumbai!

10

10

C:\Test>

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Windows

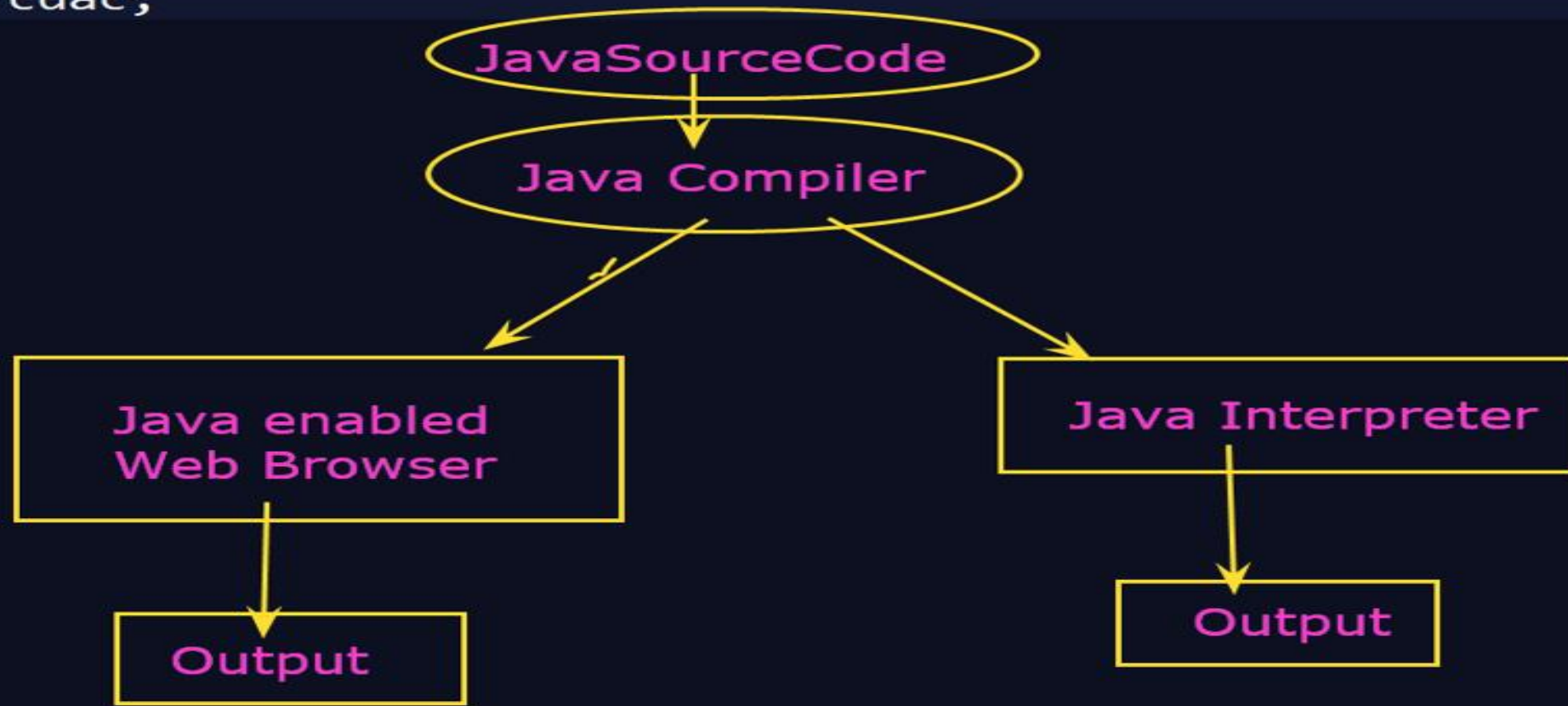
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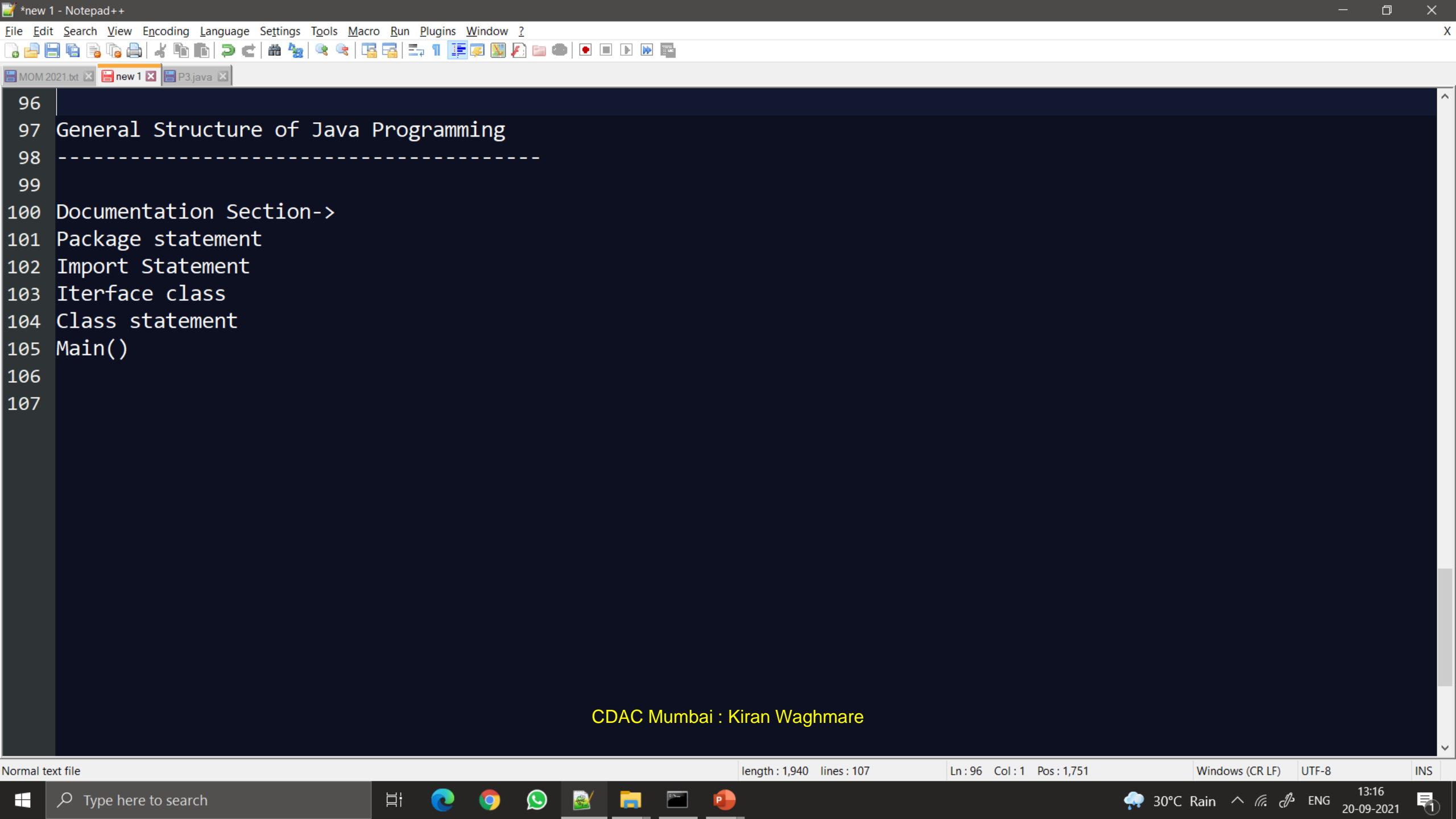
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96 package Test.cdac;



Two ways of Java programming



```
*new 1 - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
MOM 2021.txt new 1 P3.java
96
97 General Structure of Java Programming
98 -----
99
100 Documentation Section->
101 Package statement
102 Import Statement
103 Interface class
104 Class statement
105 Main()
106
107

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