

14.10.2022, 20:00:00 - Notepad

File Edit View

```
float
System.out.println("Size of float is :: "+Float.SIZE);
System.out.println("MINVALUE of float is :: "+Float.MIN_VALUE);
System.out.println("MAXVALUE of float is :: "+Float.MAX_VALUE);

size: 32 bits(1 byte = 8bits, 32/8 = 4 bytes)
minvalue: 1.4E-45
maxvalue: 3.4028235E38

eg: float a = 10.5;
```

14.10.2022

Windows Explorer

100%

14.10.2022 19:46

Notepad

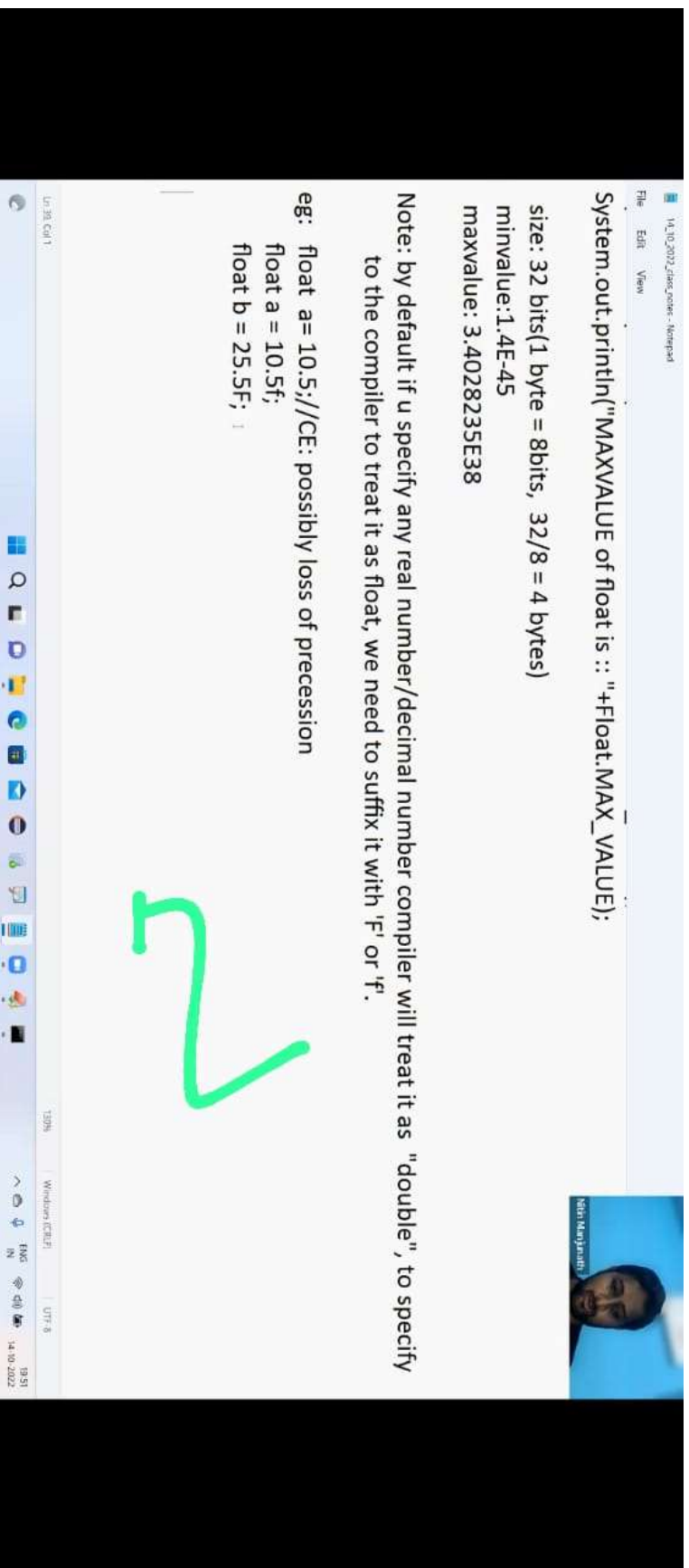
14.10.2022, 20:00:00 - Notepad

File Edit View

```
float
System.out.println("Size of float is :: "+Float.SIZE);
System.out.println("MINVALUE of float is :: "+Float.MIN_VALUE);
System.out.println("MAXVALUE of float is :: "+Float.MAX_VALUE);

size: 32 bits(1 byte = 8bits, 32/8 = 4 bytes)
minvalue: 1.4E-45
maxvalue: 3.4028235E38

eg: float a = 10.5;
```



14.10.2022, 21:05:00 - Notepad++

File Edit View

```
System.out.println("MAXVALUE of float is :: "+Float.MAX_VALUE);

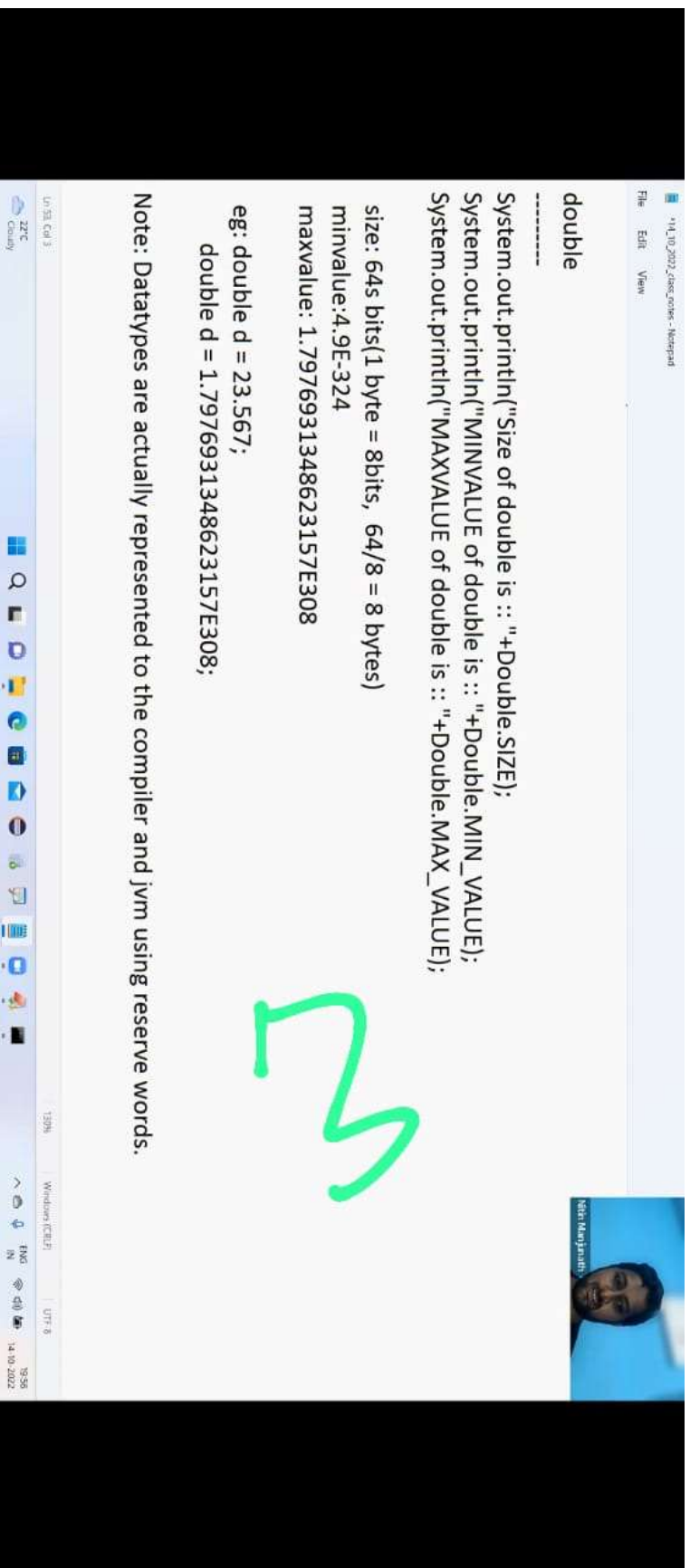
size: 32 bits(1 byte = 8bits, 32/8 = 4 bytes)
minvalue:1.4E-45
maxvalue: 3.4028235E38
```

Note: by default if u specify any real number/decimal number compiler will treat it as "double", to specify to the compiler to treat it as float, we need to suffix it with 'f' or 'F'.

eg: float a = 10.5;//CE: possibly loss of precession
float a = 10.5f;
float b = 25.5F; 1

130% Windows (CTRL) UTF-8 19:51 14.10.2022

San Manjunath



The screenshot shows a Notepad++ window with the following text:

```
double  
-----  
System.out.println("Size of double is :: "+Double.SIZE);  
System.out.println("MINVALUE of double is :: "+Double.MIN_VALUE);  
System.out.println("MAXVALUE of double is :: "+Double.MAX_VALUE);  
  
size: 64s bits(1 byte = 8bits, 64/8 = 8 bytes)  
minvalue:4.9E-324  
maxvalue: 1.7976931348623157E308  
  
eg: double d = 23.567;  
double d = 1.7976931348623157E308;
```

A large green handwritten number '3' is drawn over the code. Below the code, the text "Note: Datatypes are actually represented to the compiler and jvm using reserve words." is visible. The Windows taskbar at the bottom shows the time as 13:08 on 14-10-2022.

Note: Datatypes are actually represented to the compiler and jvm using reserve words.
reserve words are normally in "lower case".

To map primitive data as Object in java from JDK1.5 concept of "Wrapper class" was introduced.4

byte-----> Byte(C)
short-----> Short(C)
int -----> Integer(C)
long-----> Long(C)
float-----> Float(C)
double-----> Double(C)

7



[illegible]

Handwritten notes on a grid background, likely from a video lecture. The notes are written in black ink and include calculations and a large green arrow.

11p \rightarrow 894 UTF-16 \rightarrow 17018 + 16 bit

get \Rightarrow 65536 \rightarrow character/symbol

English, Hindi, Kanada, ... \rightarrow ----- \rightarrow

65536 \Rightarrow 16 bits \Rightarrow 2 bytes

UTF \rightarrow Unicode \Rightarrow 2 bytes

\Rightarrow Java \rightarrow UTF \Rightarrow 2 bytes

A large green arrow points from the bottom right towards the center of the page.

Top bar (taskbar):

- Job C
- Alf
- Rece
- New
- Docu
- Youtu
- Ful S
- Ente
- New
- Man
- CS
- Java

Bottom right corner: A small video feed of a person, labeled "by: der Abbas".

Job C X

Alfira X

Rehan X

Neer X

Deen X

Yousuf X

Fadi S X

Enhar X

Neer X

Mahm X

CSB X

Amr X

keep.google.com/NOTIFY/8672928835.2007831813

Englis

(4)

2

9

2

128


(65)

64

128-550m2/

8

by:der/Abbas





Job C. X | Affili X | Revo X | New X | Docu X | Youde X | Full S X | Enter X | New X | Man X | C20 X | Jans X

keep.google.com/NOTIFY/672928835.2007631813

|||||

create judge.

Englis

④

z

q

1

z

Dec

⑥5

66

⑥7

q7

q8

Dec-recp | BCLT/VMD

128-500mg/

5

$\text{char } a = \text{'\text{A'}\text{'}}; \quad \times$
 $\text{char } a = \text{'\text{A}}; \quad \times$

single char
 char is indeterminate

10

⇒ Java → Unicode → UTF-8 ⇒ } ⊖ }

↳ char ⇒ 2 bytes

syntax :-

⇒
char a = 'H';

char a = 'H';

char a = 'H';

} single char
} independent }

=====



12

\Rightarrow 1 byte 2 byte 4 8 16 32
 byte - short - int - long - float - double

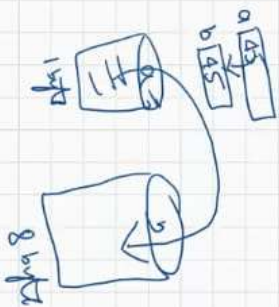
Char
Amica

$$\Rightarrow \tan \alpha = 45^\circ \quad \textcircled{1}$$

double b; ✓

519

S.O.P (h); 4500



13



14

gs) {

Job C X Afrin X Nihar X Dhanu X Younis X Firdos X Esha

keep.google.com/NOTENB672928983652607637813

by:der/Abbas

char

union

=> byte a = 45 ;

double b ;

b = a ;

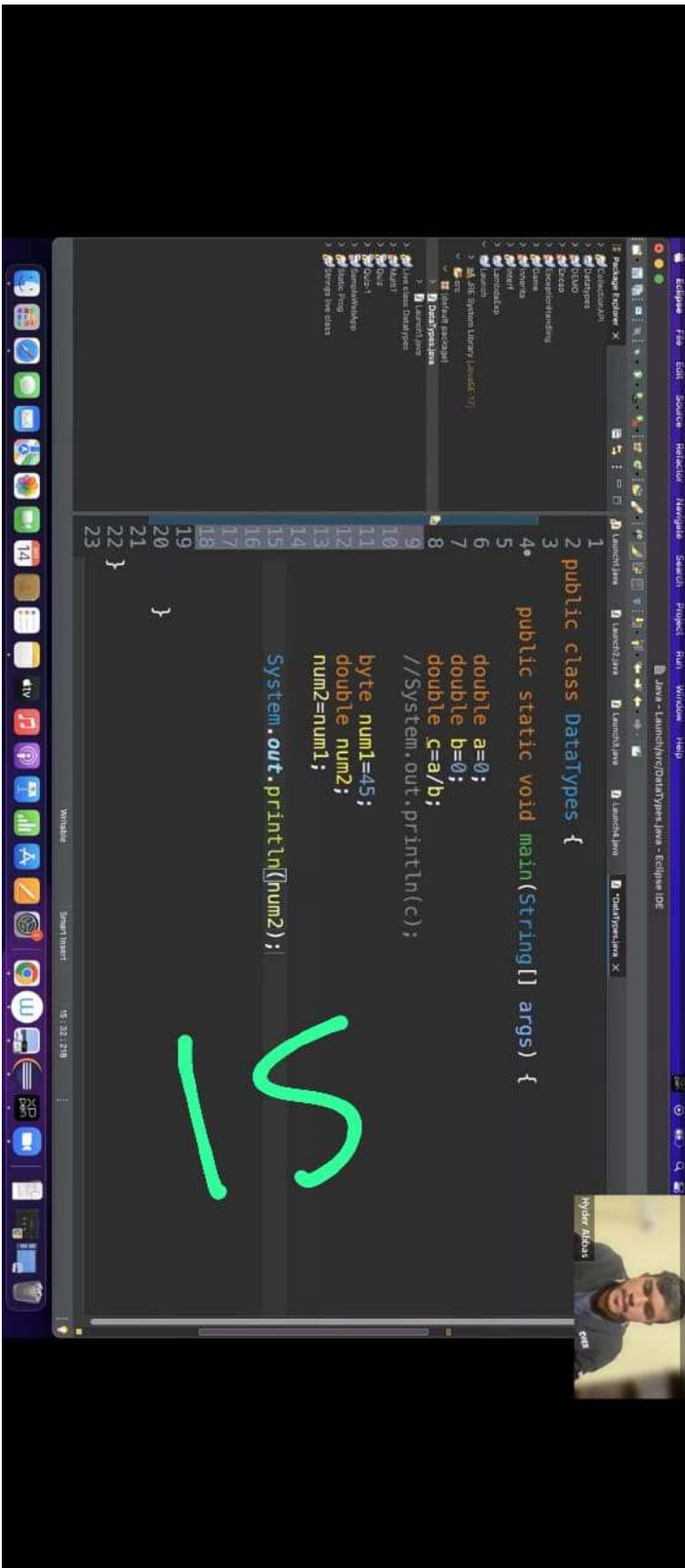
S.op(b) ; 45

a 45

b 45

114

8 byte



Chol
~~Amicid~~

type casting	Numeric
--------------	---------

$$\Rightarrow (b^2 + a = 45) \quad (1)$$

double 6

515

$$S^{-1}(b) = 450$$

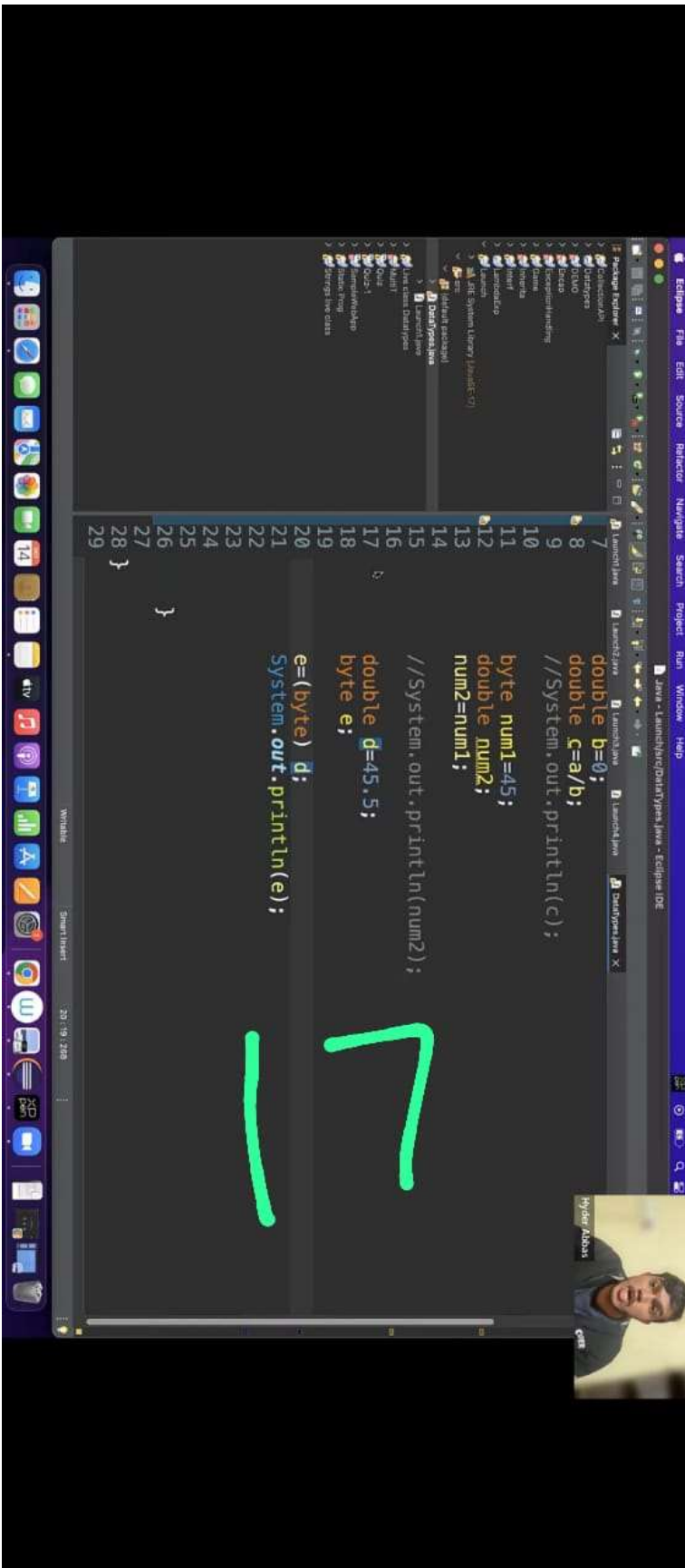
by

implicit

↳ Numeric type promotion

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Job G

Alfian

Reza

Neon

Good

Yusuf

Fad S

Emin

Neon

Mari

Cara

Ami

keep.google.com/NOTET/8672928835.2007631813

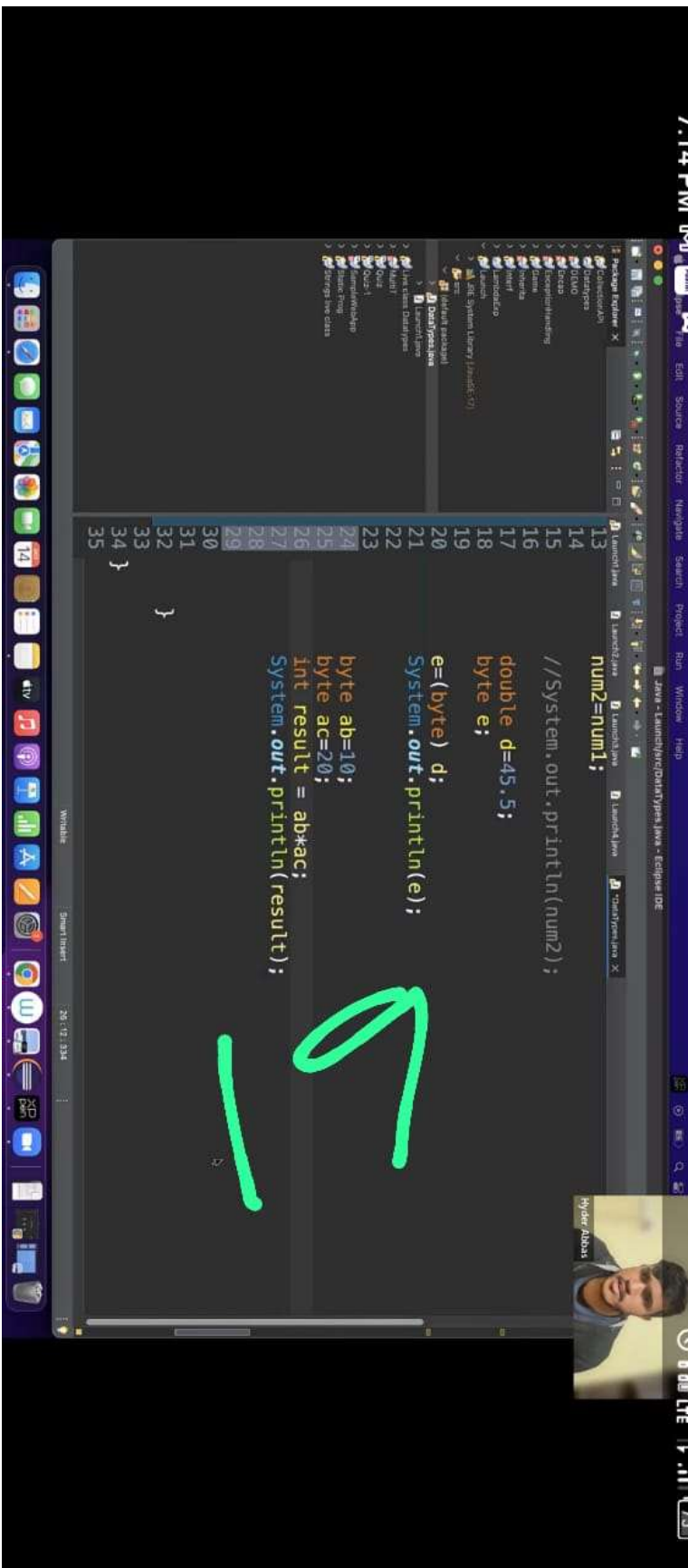
⇒ double $\alpha = 4S.S;$
bfr $b;$
 $b = (\text{bfr } b);$
 $s.o.p(b);$ over/

• SSSS
precision

lots of
precision
might come

18

by:der/Abbas





⇒

a++ post-incr

++a pre-incr --a

→ pre Dec

int a = 5;

~~a~~ 6

int a = 5;

~~a~~ 4

int b;

b = a++;

s.o.p(a); b

s.o.p(b); 5

int b;

b = --a;

s.o.p(a); b

s.o.p(b); 4

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language fundamentals - Notepad

File Edit View

2.

Does below code compile successfully?

public class Test {
 public static void main(String [] args) {
 System.out.println("Hello");
 }
}


A. yes
B. no

Ans: A

In java every statement should be terminated with ; symbol
Note: ; means ending.


24

Nishant Jaiswal



Ln 30, Col 1

22°C Coooly



100%

Windows [CTRL]

UT 5

22°C

14-10-2022

language fundamentals - Notepad
File Edit View
D. private static void main(String[] args)// private can't be for a main method

4.
What will be the result of compiling and executing Test class?
java Test good morning everyone

```
private class Test{  
    public static void main(String args[]) {  
        System.out.println(args[1]);  
    }  
}
```

- A. compilation error //valid answer becoz the main m
- B. good
- C. morning
- D. everyone

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language fundamental - Notepad
File Edit View
D. everyone

5.

For the class Test, which options, if used to replace /*INSERT*/, will print "Hurrah! I passed..." on to the console? Select 2 options.

```
public class Test {  
    /*INSERT*/ {  
        System.out.println("Hurrah! I passed...");  
    }  
}
```

A. static public void main(String[] args) // static and public can be interchanged so valid

B. public static void main(String[] a)//valid

C. static public void Main(String[] args)

D. public void main(String[] args)

E. protected static void main(String[] args)

F. public void static main(String[] args) |

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language fundamental - Notepad

File Edit View

```
A. static public void main(String[] args) // static and public can be interchanged so valid
B. public static void main(String[] a)//valid
C. static public void Main(String[] args)
D. public void main(String[] args)
E. protected static void main(String[] args)
F. public void static main(String[] args)//here static and void is interchanged is not possible
```

6.
Suppose you have created a java file, "MyClass.java".
Which of the following commands will compile the java file?

A. javac MyClass //invalid becuz .java is missing

B. java MyClass //javac is command is used for compilation

C. javac MyClass.class //invalid becuz .java is missing

D. javac MyClass.java //valid

E. java MyClass.java //javac is the command for compilation and java is command for execution

Handwriting

Ln 73, Col 56

22°C Cloudy

100% Windows (CTRL) UTF-8 22:35 14-10-2022

Which of the following commands will compile the java file?

- A. javac MyClass //invalid becoz .java is missing
- B. java MyClass //javac is command is used for compilation
- C. javac MyClass.class //invalid becoz .java is missing
- D. javac MyClass.java //valid
- E. java MyClass.java //javac is the command for compilation and java is command for execution

```
byte a=10;  
int b=a;
```

10 is considered as int by compiler, but datatype specified is byte
compiler will check can 10 be stored inside byte range or not
if possible as byte only it will be stored otherwise it results in CE: possible loss of precision

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Which of the following commands will compile the java file?

- A. javac MyClass //invalid becoz .java is missing
- B. java MyClass //javac is command is used for compilation
- C. javac MyClass.class //invalid becoz .java is missing
- D. javac MyClass.java //valid
- E. java MyClass.java //javac is the command for compilation and java is command for execution

```
byte a = 10;  
int b = a;
```

int a = 10;
byte b = a; //Ce: possible loss of precision

10 is considered as int by compiler, but datatype specified is byte
compiler will check can 10 be stored inside byte range or not
if possible as byte only it will be stored otherwise it results in CE: possible loss of precision

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