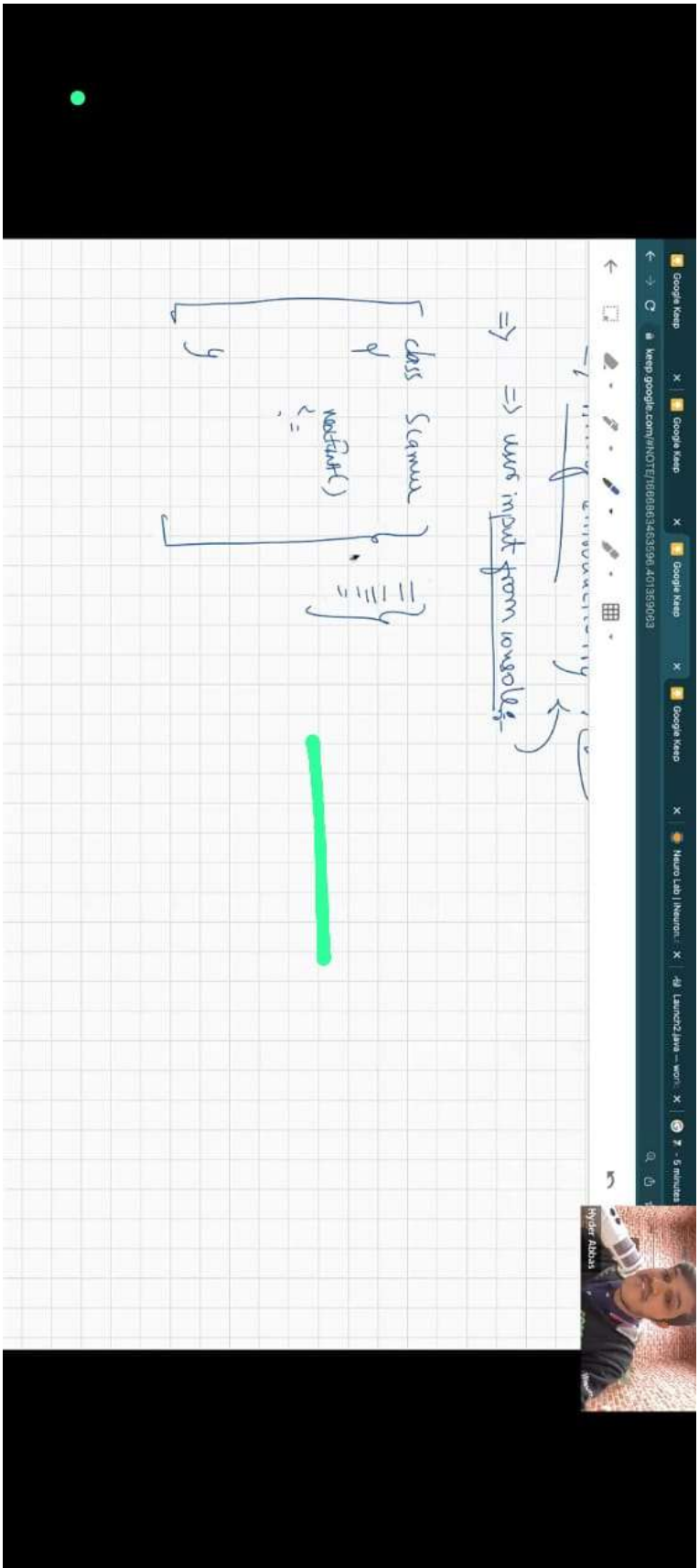
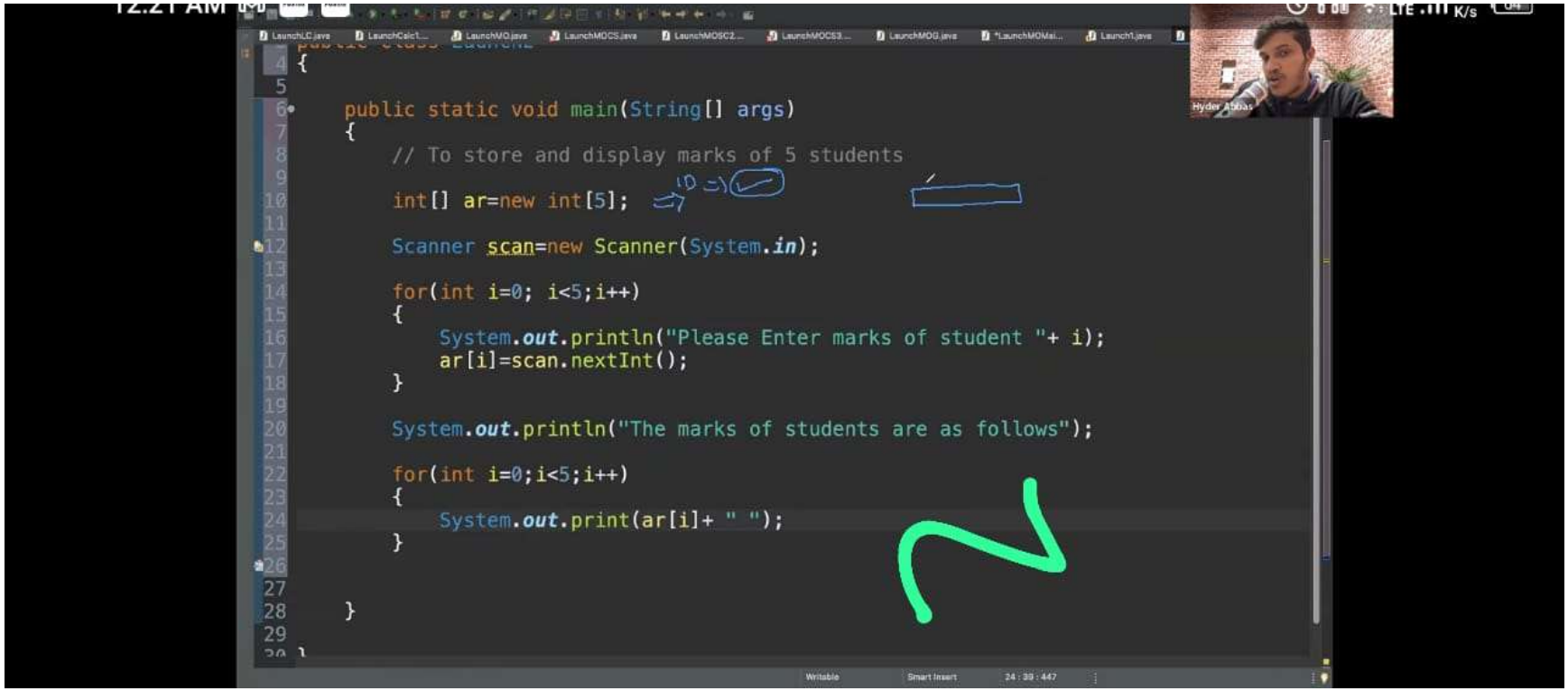
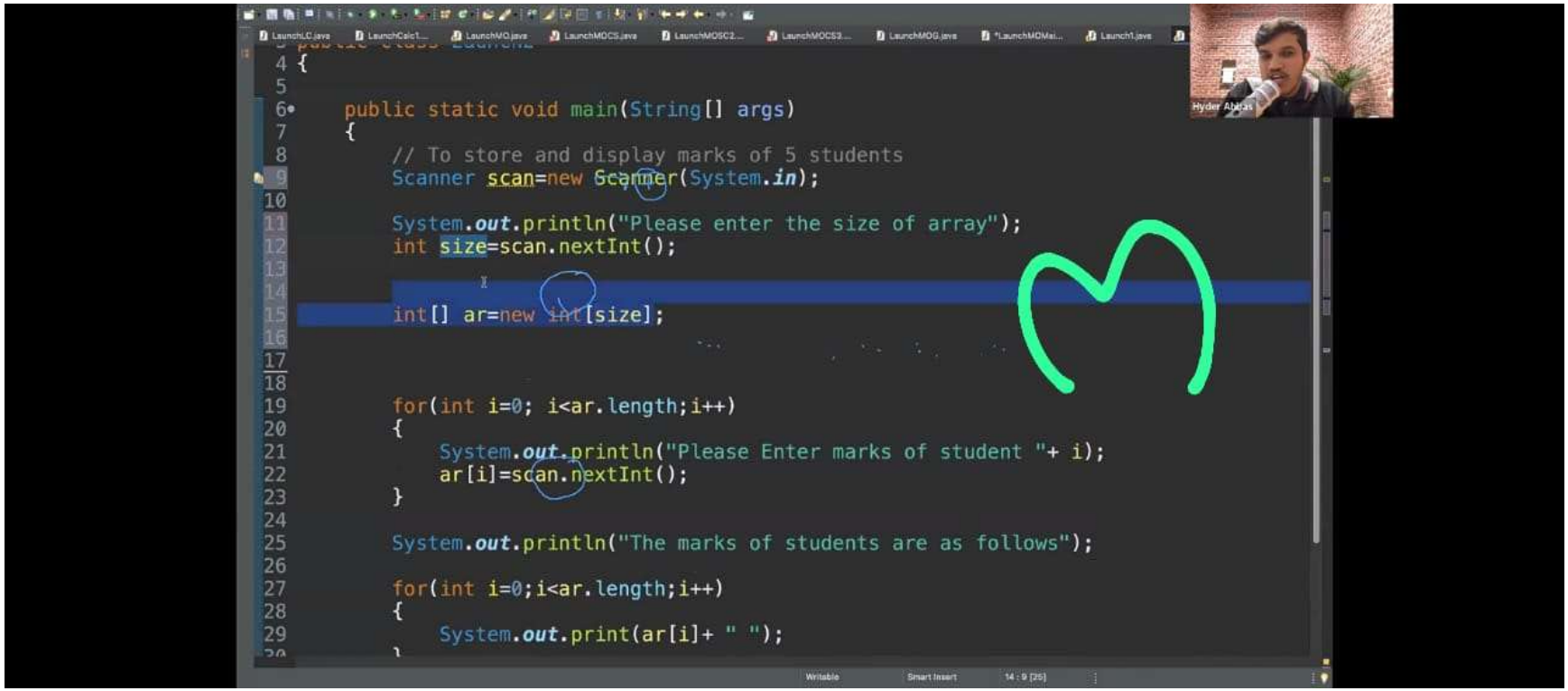
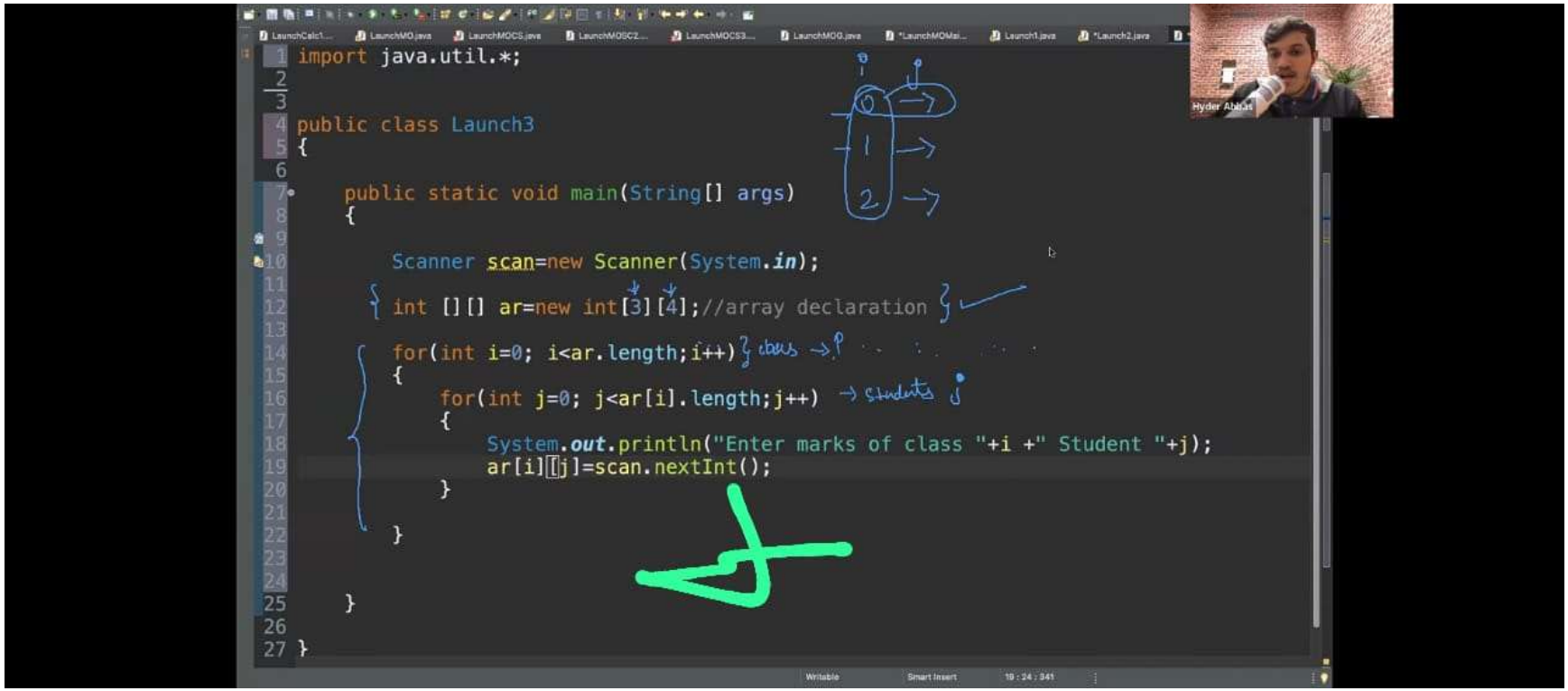
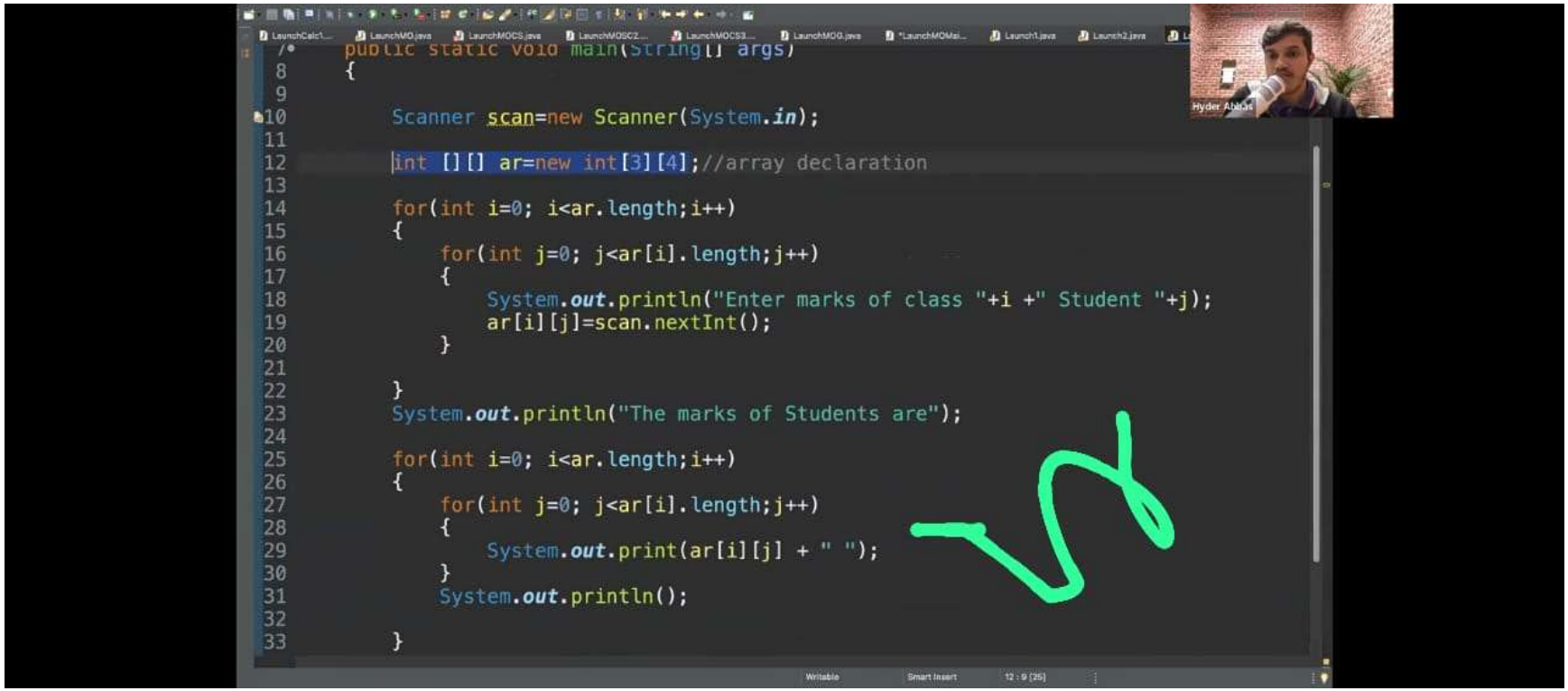
11Array_In_Java_Part2

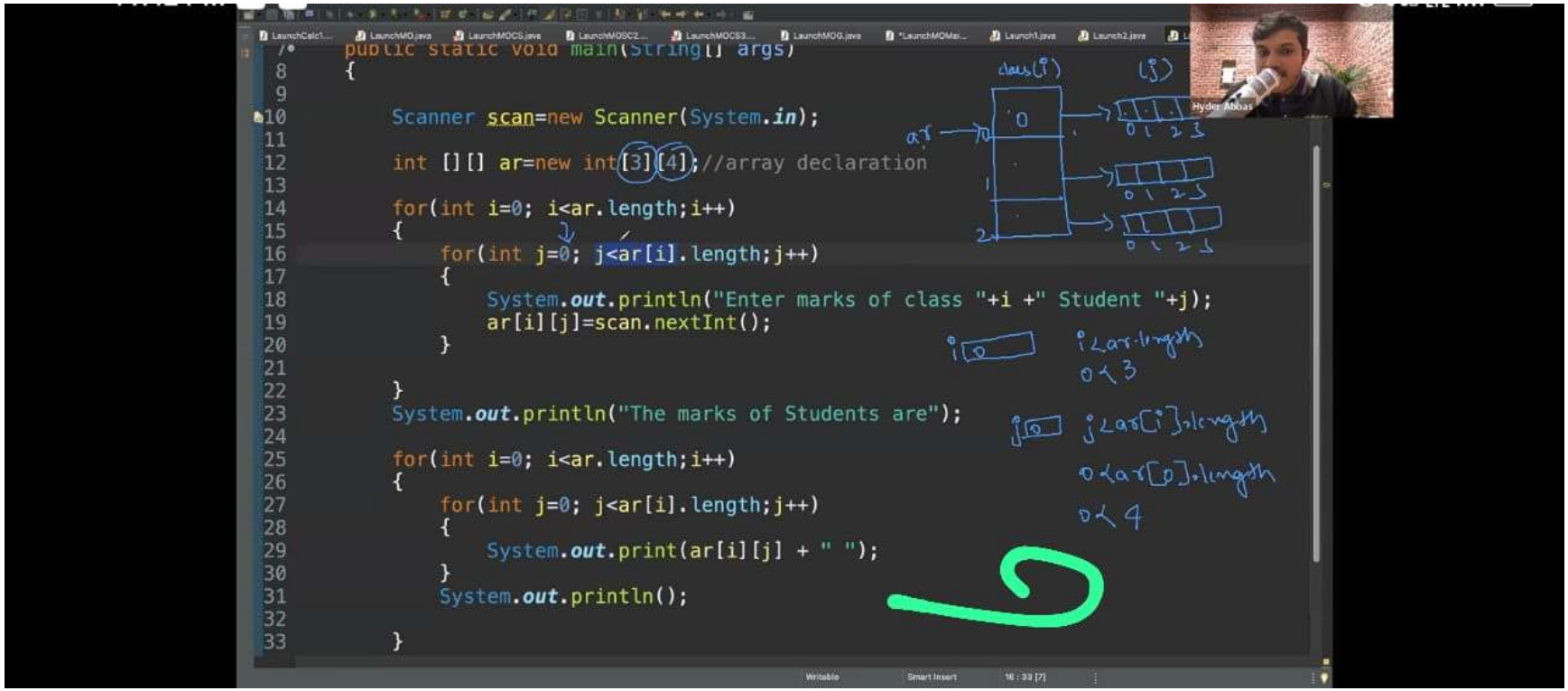


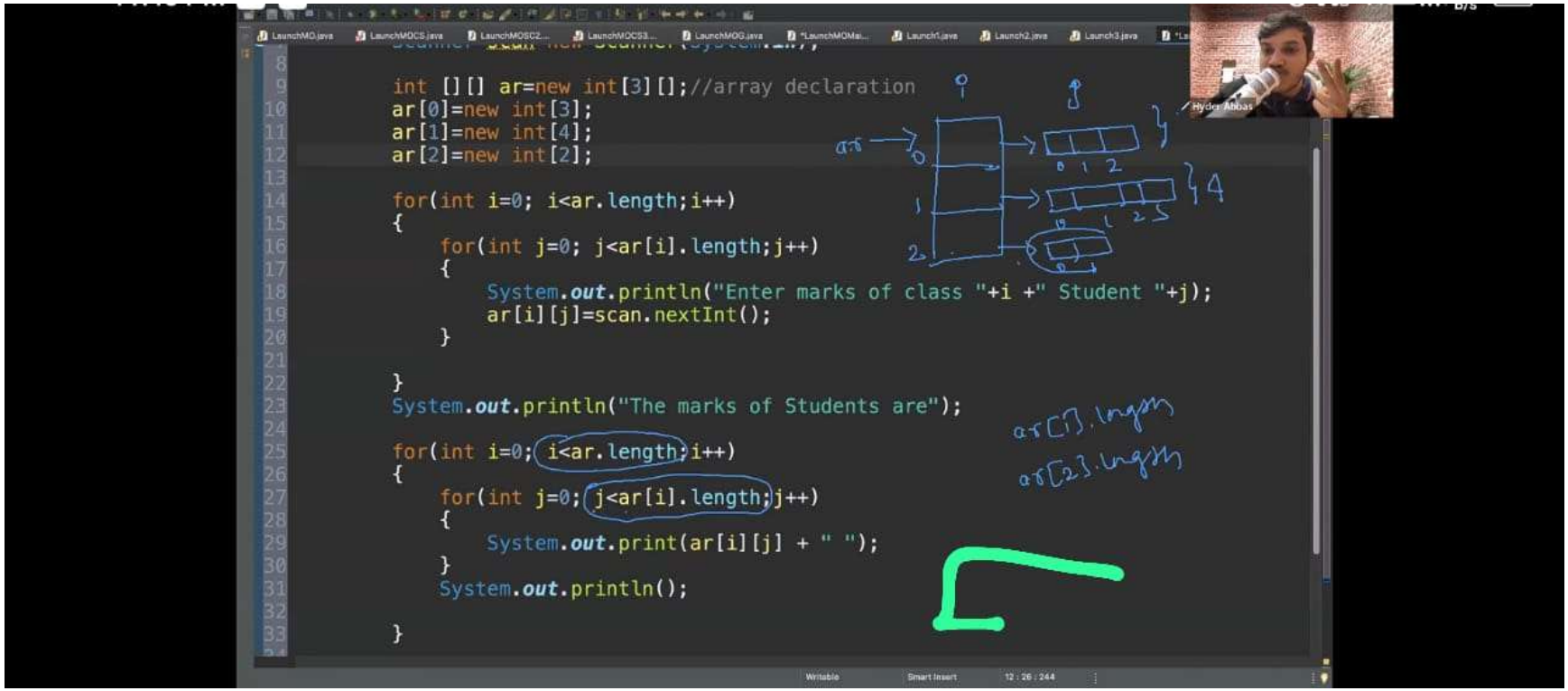

{
public static void main(String[] args)
{
// To store and display marks of 5 students
int[] ar=new int[5];
Scanner scan=new Scanner(System.in);
for(int i=0; i<5;i++)
{
System.out.println("Please Enter marks of student "+ i);
ar[i]=scan.nextInt();
}
System.out.println("The marks of students are as follows");
for(int i=0;i<5;i++)
{
System.out.print(ar[i]+ " ");
}
}
Hyder Abbas

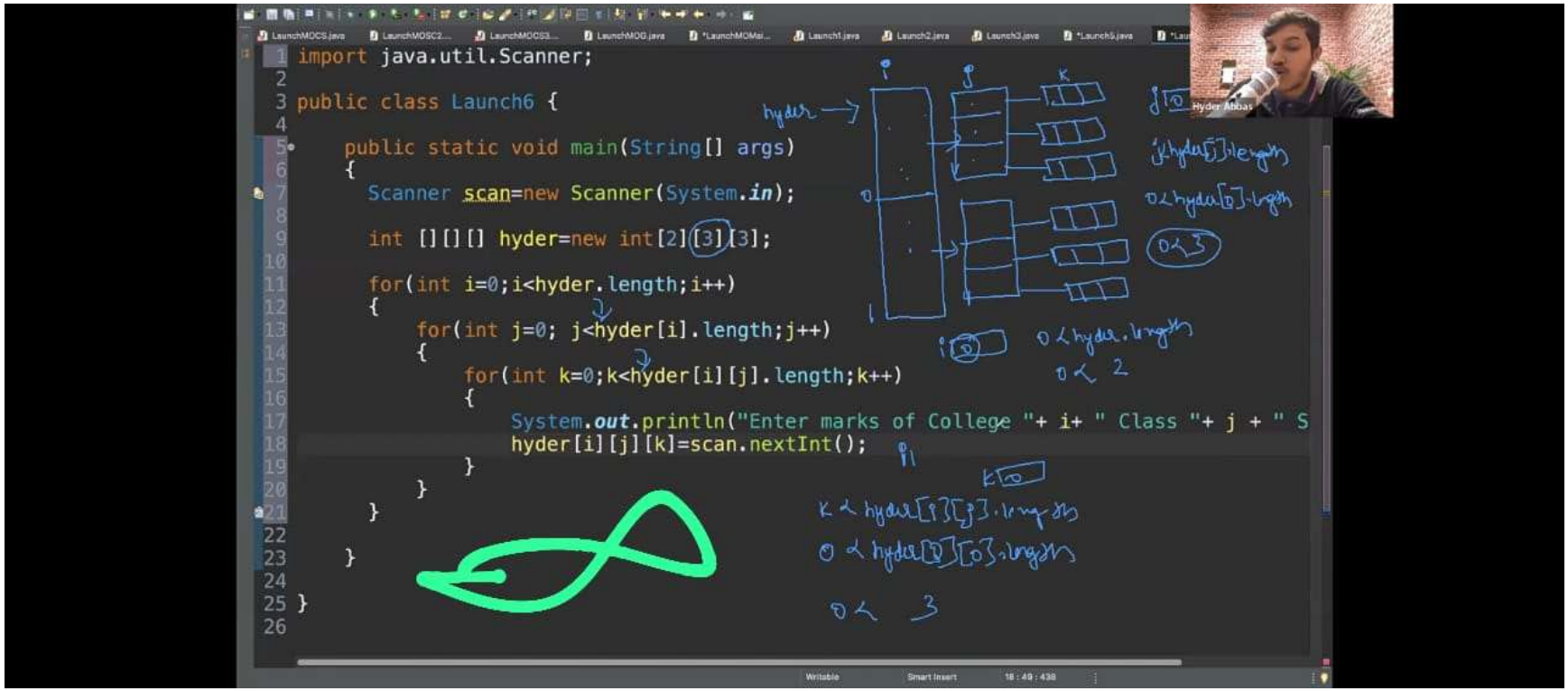

{
public static void main(String[] args)
{
// To store and display marks of 5 students
Scanner scan=new Scanner(System.in);
System.out.println("Please enter the size of array");
int size=scan.nextInt();
int[] ar=new int[size];
for(int i=0; i<ar.length;i++)
{
System.out.println("Please Enter marks of student "+ i);
ar[i]=scan.nextInt();
}
System.out.println("The marks of students are as follows");
for(int i=0;i<ar.length;i++)
{
System.out.print(ar[i]+ " ");
Writable
Smart Insert
14 : 9 [25]

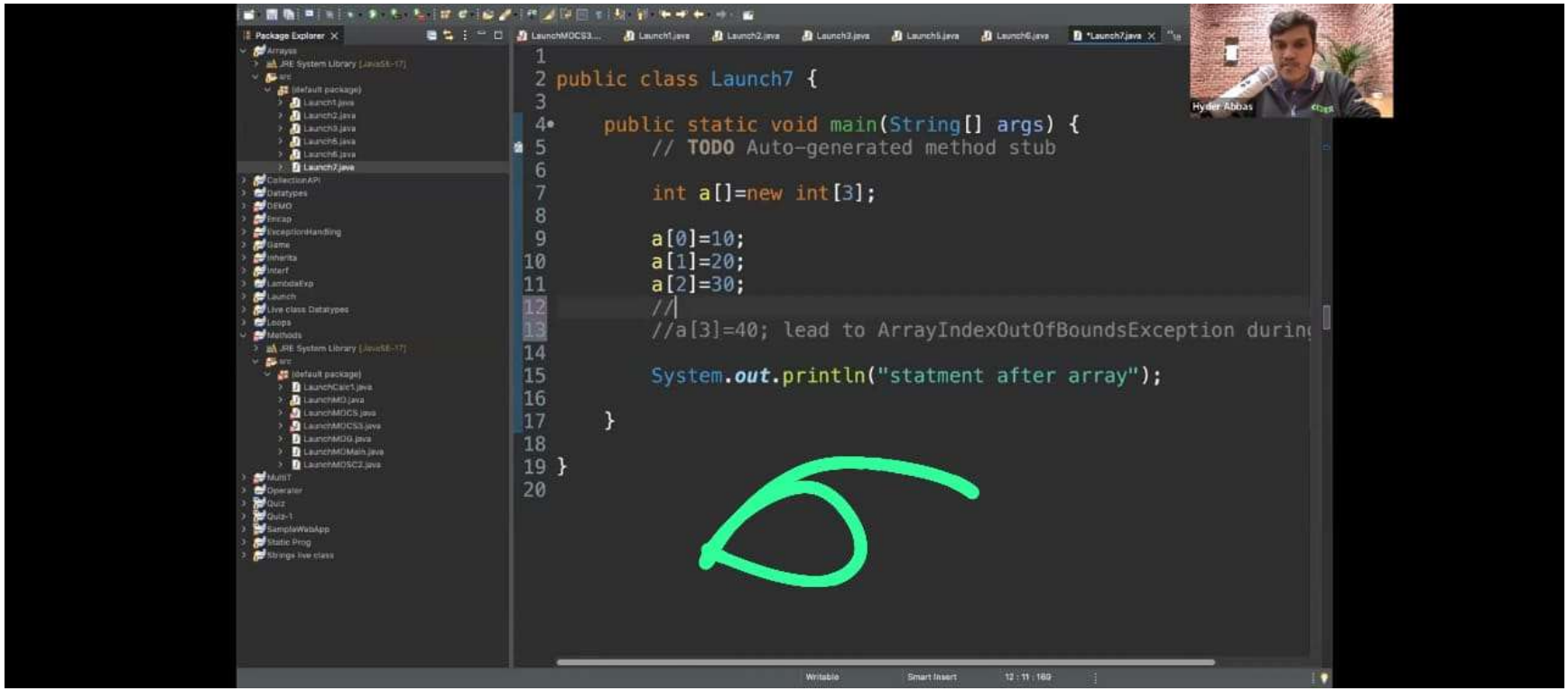

import java.util.*;
public class Launch3
{
public static void main(String[] args)
{
Scanner scan=new Scanner(System.in);
int [][] ar=new int[3][4];//array declaration
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.println("Enter marks of class "+i +" Student "+j);
ar[i][j]=scan.nextInt();
}
}
}
}
Hyder Abbas

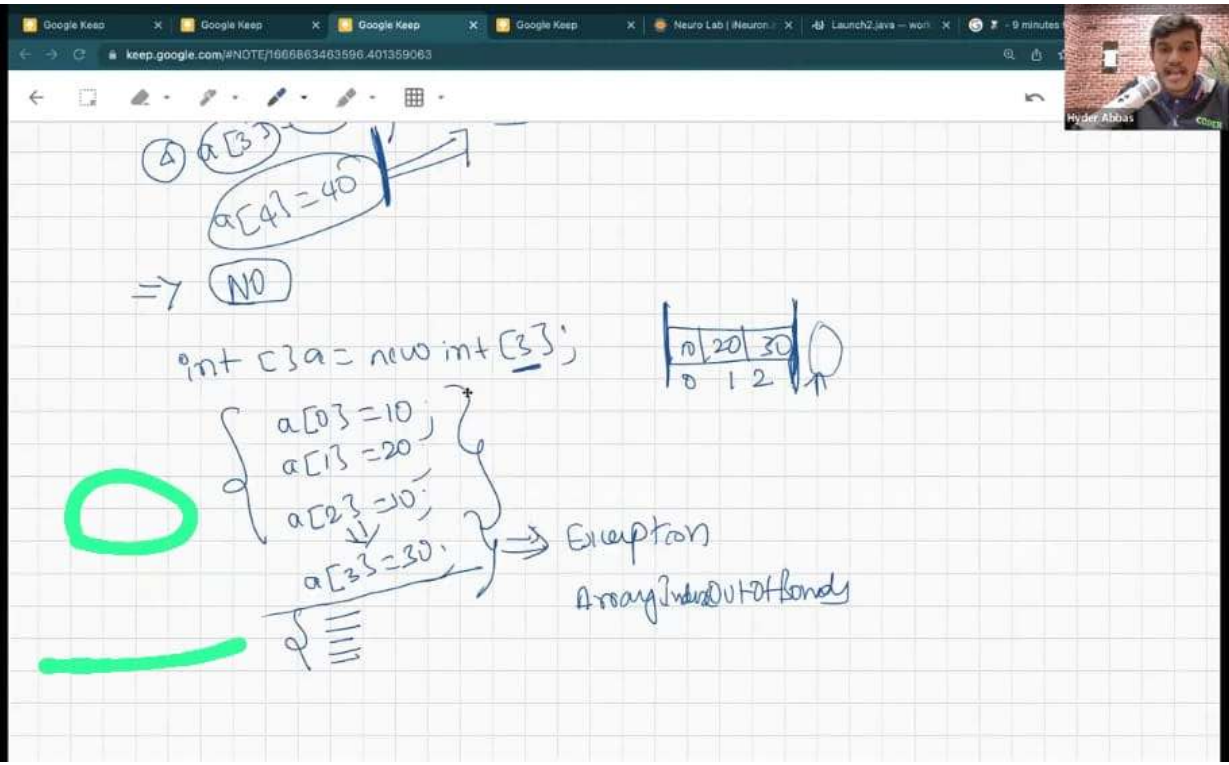

public static void main(String[] args)
{
Scanner scan=new Scanner(System.in);
int [][] ar=new int[3][4];//array declaration
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.println("Enter marks of class "+i +" Student "+j);
ar[i][j]=scan.nextInt();
}
}
System.out.println("The marks of Students are");
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.print(ar[i][j] + " ");
}
System.out.println();
}
Hyder Abbas
Writable
Smart Insert
12 : 9 [25]

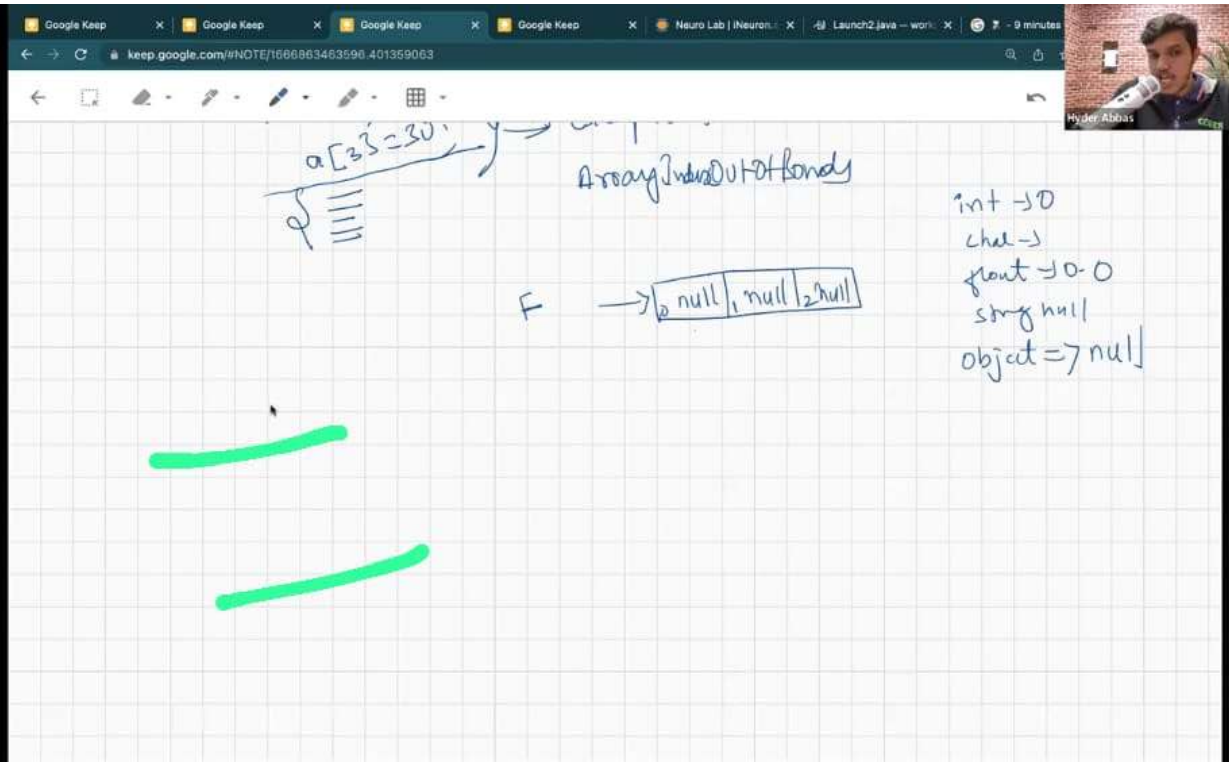

public static void main(String[] args)
{
Scanner scan=new Scanner(System.in);
int [][] ar=new int[3][4];//array declaration
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.println("Enter marks of class "+i +" Student "+j);
ar[i][j]=scan.nextInt();
}
}
System.out.println("The marks of Students are");
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.print(ar[i][j] + " ");
}
System.out.println();
}
class(i)
(j)
ar
i<ar.length
0<3
j<ar[i].length
0<ar[0].length
0<4
Hyder Abbas

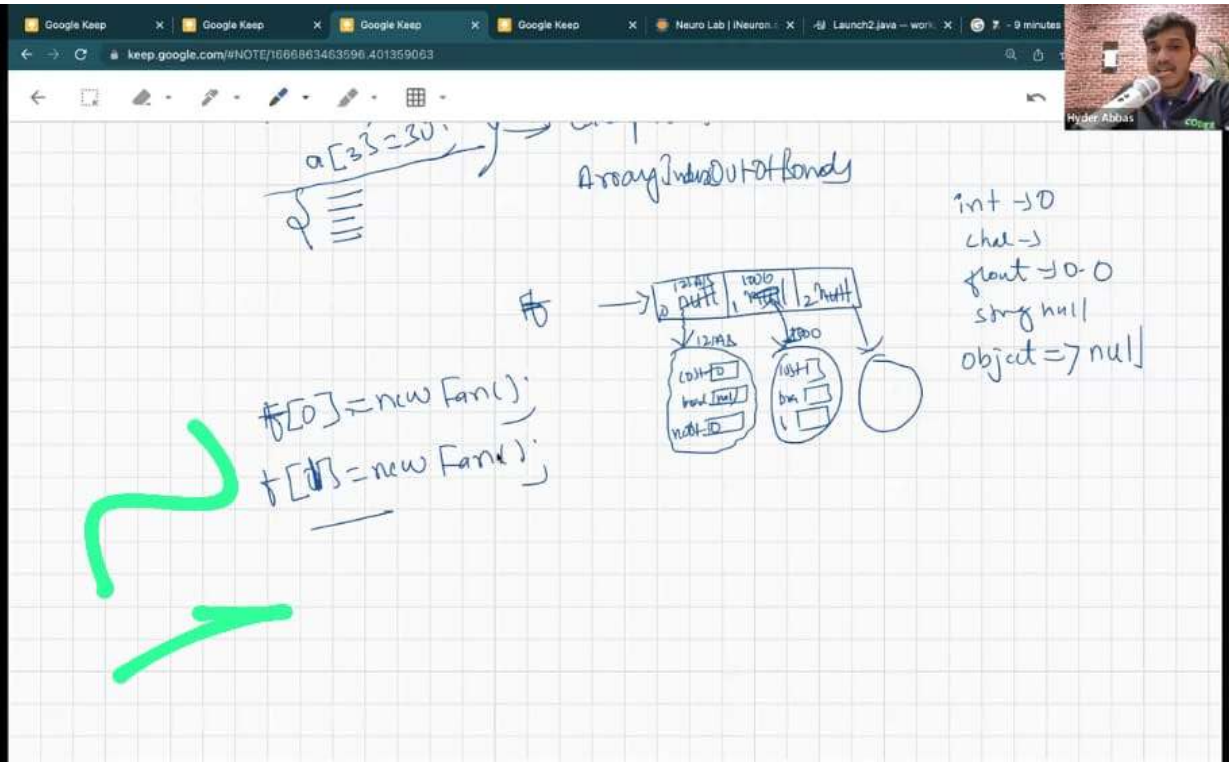

int [][] ar=new int[3][];//array declaration
ar[0]=new int[3];
ar[1]=new int[4];
ar[2]=new int[2];
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.println("Enter marks of class "+i +" Student "+j);
ar[i][j]=scan.nextInt();
}
}
System.out.println("The marks of Students are");
for(int i=0; i<ar.length;i++)
{
for(int j=0; j<ar[i].length;j++)
{
System.out.print(ar[i][j] + " ");
}
System.out.println();
}
ar[].length
ar[2].length
Writable
Smart Insert
12 : 26 : 244

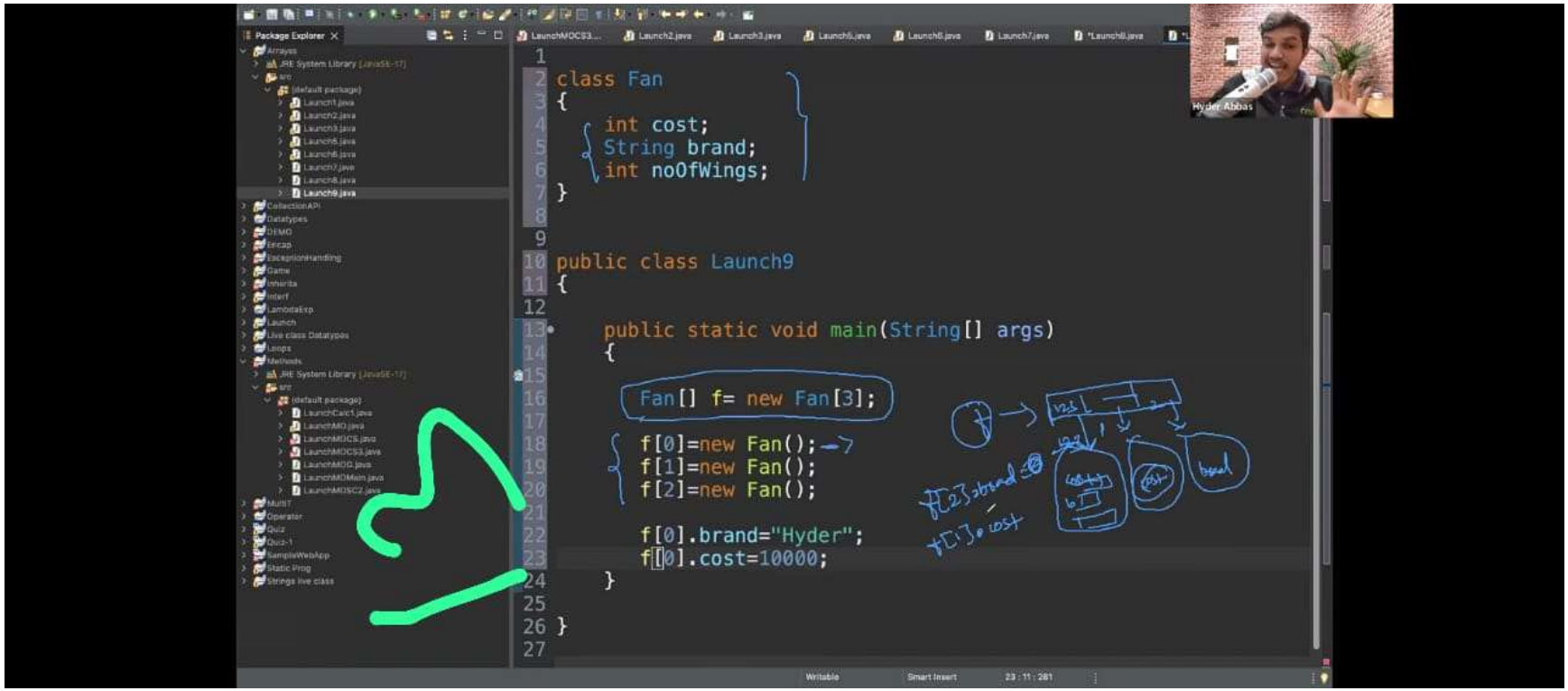

import java.util.Scanner;
public class Launch6 {
public static void main(String[] args)
{
Scanner scan=new Scanner(System.in);
int [][][] hyder=new int[2][3][3];
for(int i=0;i<hyder.length;i++)
{
for(int j=0; j<hyder[i].length;j++)
{
for(int k=0;k<hyder[i][j].length;k++)
{
System.out.println("Enter marks of College "+ i+ " Class "+ j + " S
hyder[i][j][k]=scan.nextInt();
}
}
}
}
}
Hyder Abbas

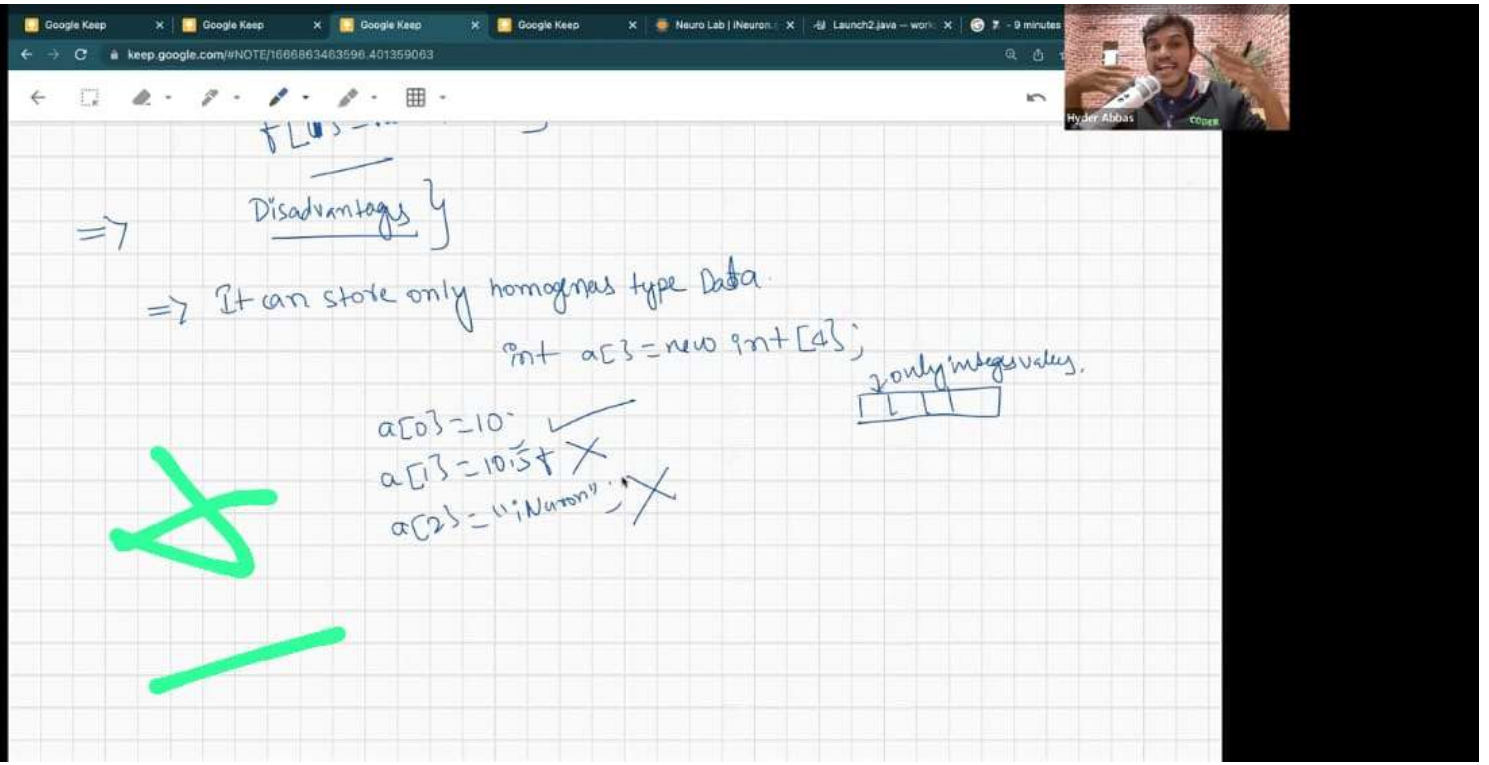

Package Explorer
Launch1.java
Launch2.java
Launch3.java
Launch5.java
Launch6.java
*Launch7.java
Hyder Abbas
public class Launch7 {
public static void main(String[] args) {
// TODO Auto-generated method stub
int a[]=new int[3];
a[0]=10;
a[1]=20;
a[2]=30;
//a[3]=40; lead to ArrayIndexOutOfBoundsException durin
System.out.println("statment after array");
}
}
Writable
Smart Insert
12 : 11 : 169

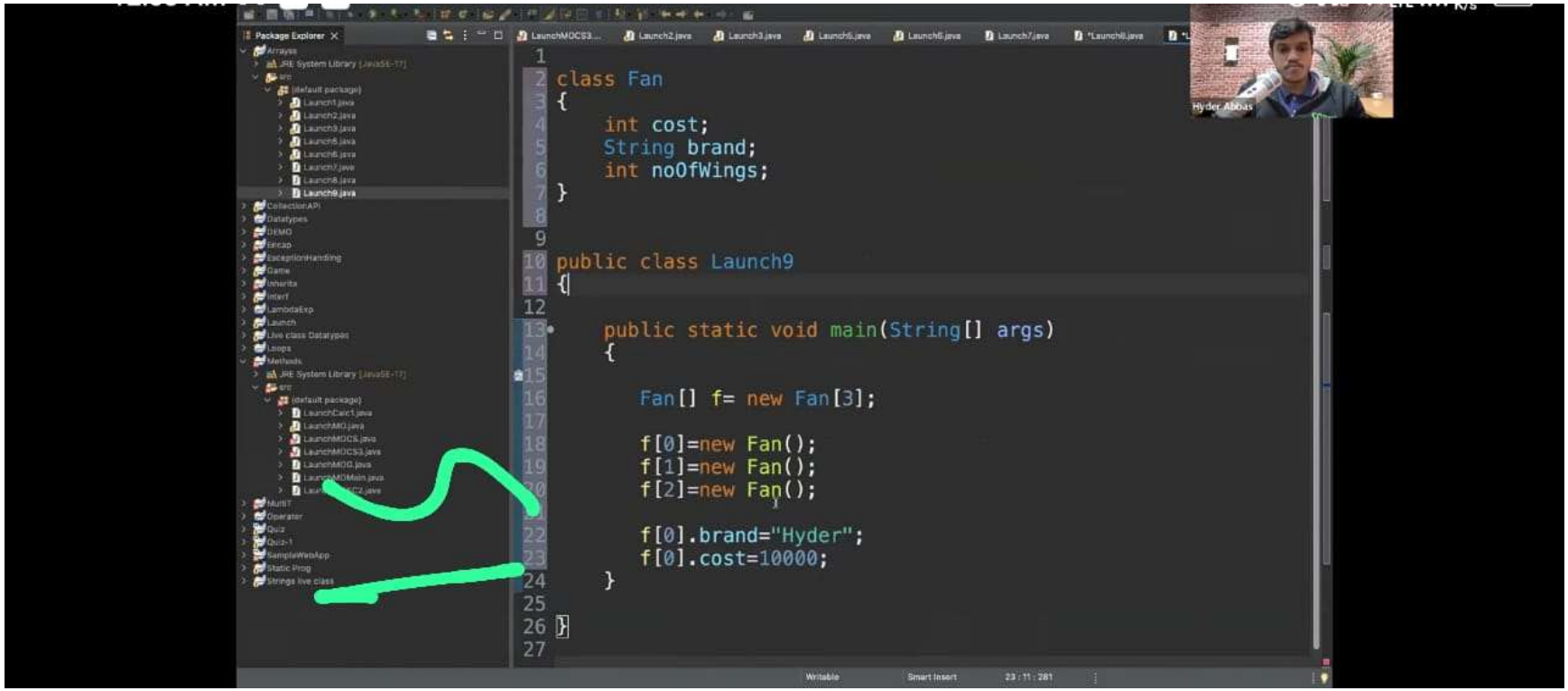

Google Keep
Google Keep
Google Keep
Google Keep
Neuro Lab | iNeuron
Launch2.java — work
keep.google.com/#NOTE/1666863463596.401359063
Hyder Abbas
a[3]
a[4]=40
NO
int[]a=new int[3];
10 20 30
0 1 2
a[0]=10;
a[1]=20;
a[2]=30;
a[3]=30;
Exception
ArrayIndexOutOfBondy

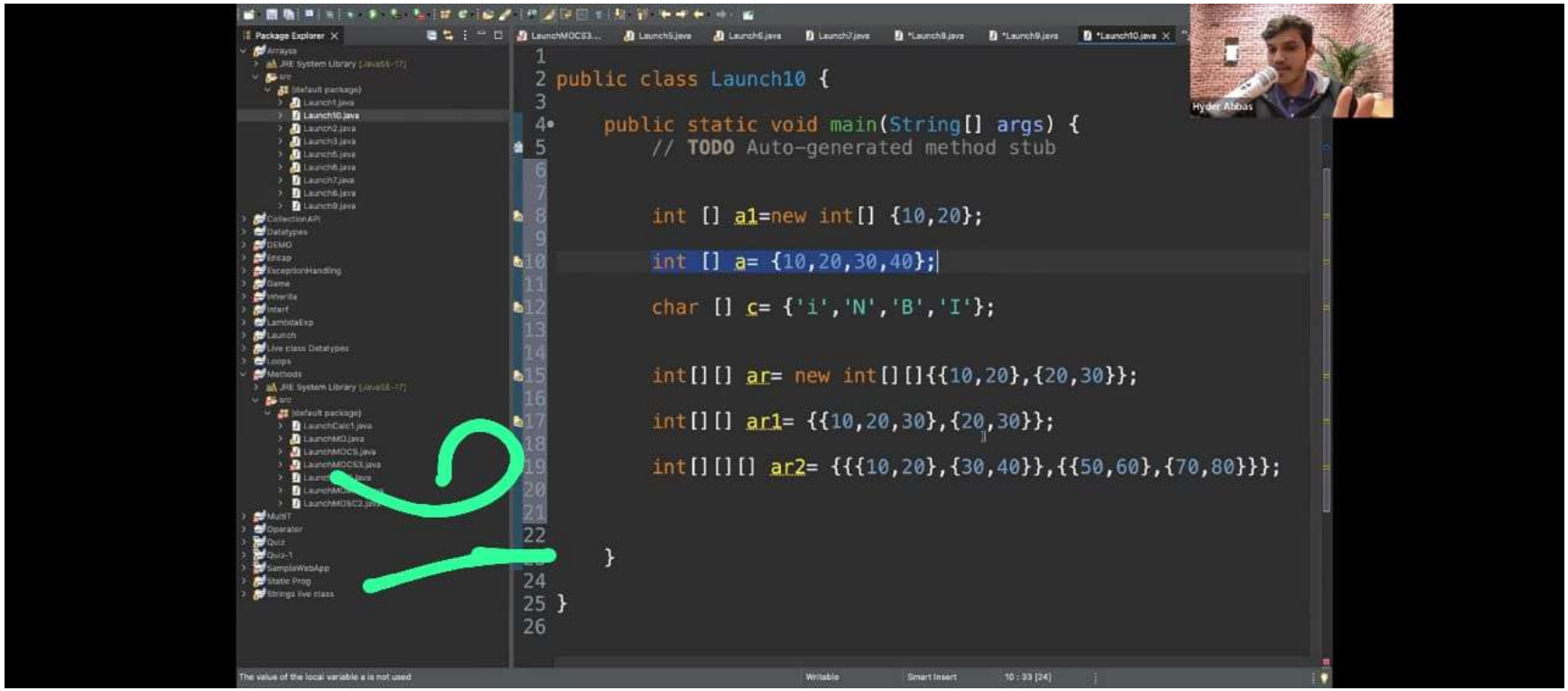

Google Keep
Google Keep
Google Keep
Google Keep
Neuro Lab | iNeuron
Launch2.java — work
9 minutes
keep.google.com/#NOTE/1666863463596.401359063
Hyder Abbas
a[3]=30;
ArrayIndexOutOfBoundy
F
0 null
1 null
2 null
int → 0
char →
float → 0.0
String null
object → null

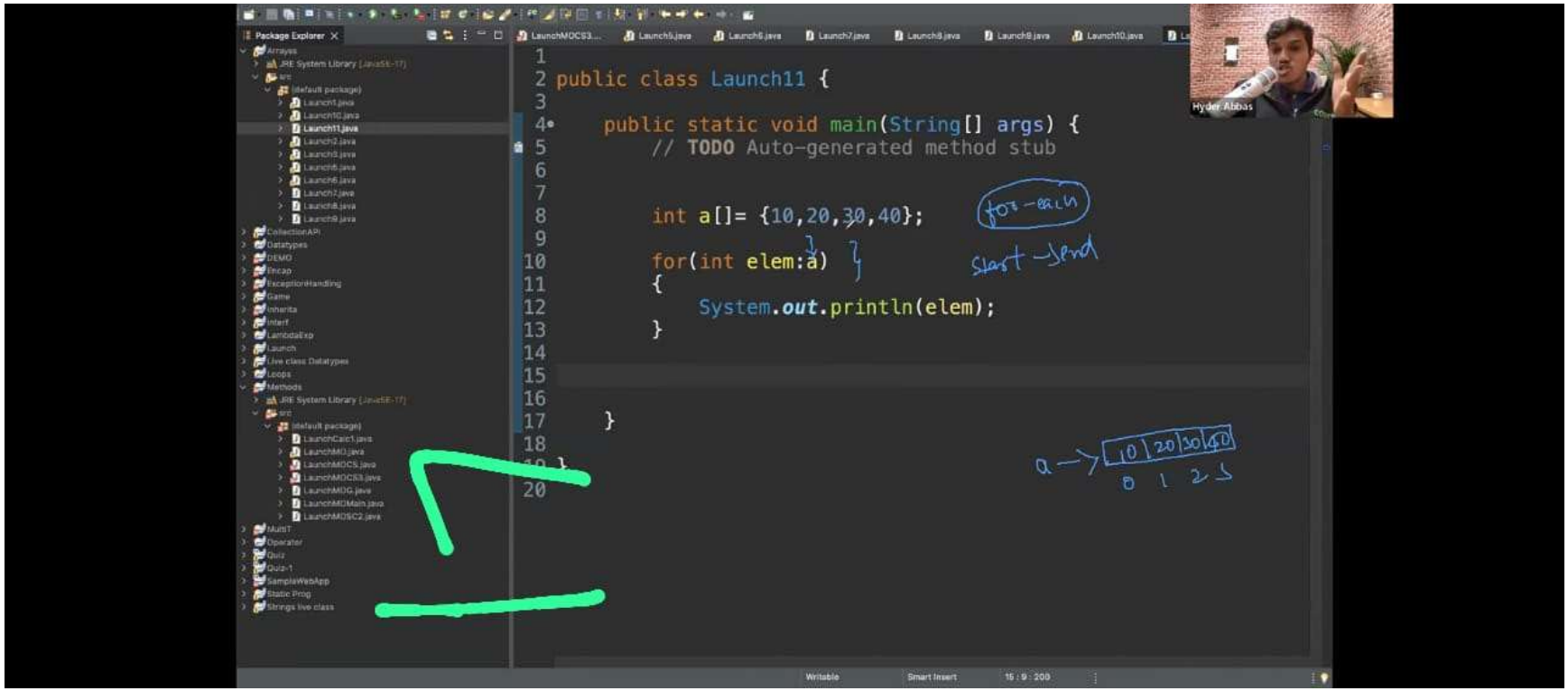

Google Keep
Google Keep
Google Keep
Google Keep
Neuro Lab | iNeuron
Launch2.java — work
9 minutes
keep.google.com/#NOTE/1666863463596.401359063
Hyder Abbas
a[3]=30;
ArrayIndexOutOfBoundy
int -> 0
char ->
float -> 0.0
String null
object => null
f[0]=new Fan();
f[1]=new Fan();

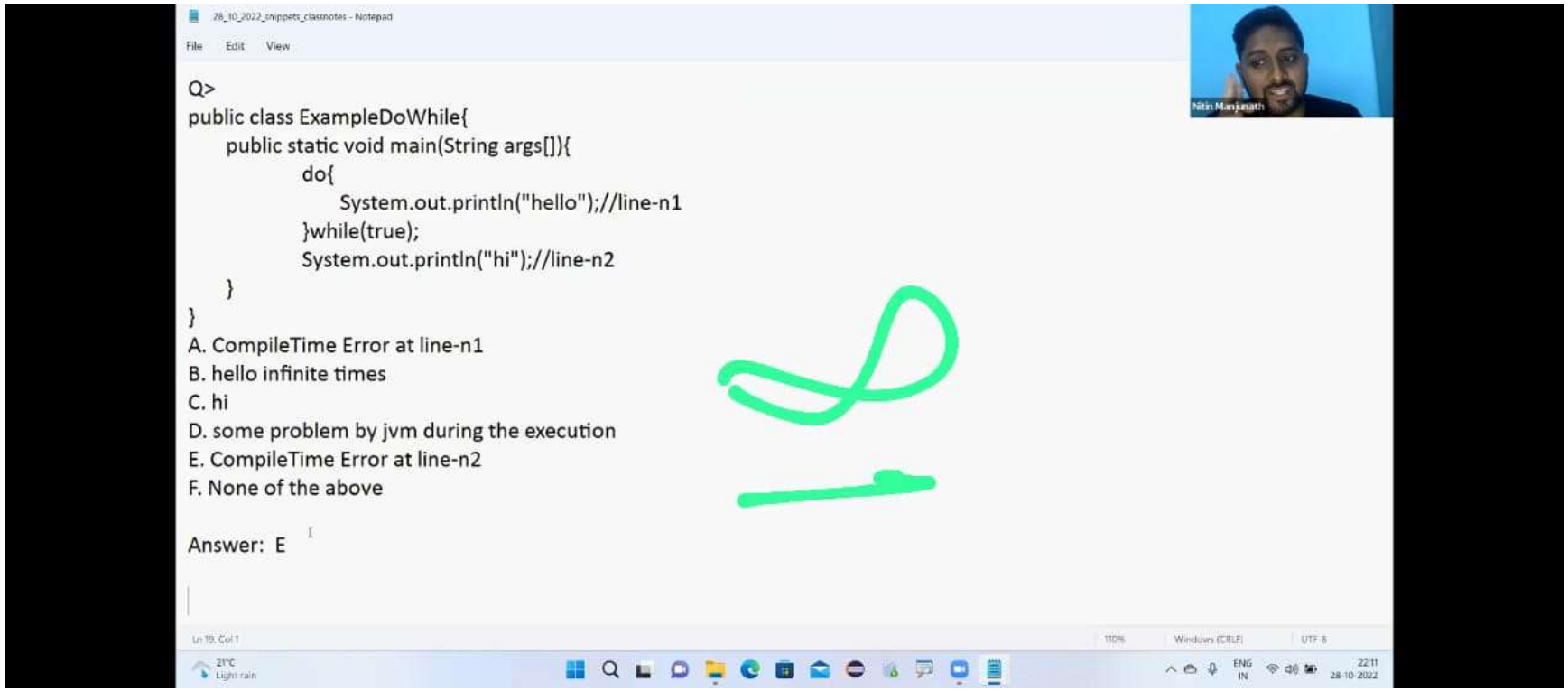

Package Explorer
Launch2.java
Launch3.java
Launch5.java
Launch6.java
Launch7.java
Hyder Abbas
class Fan
{
int cost;
String brand;
int noOfWings;
}
public class Launch9
{
public static void main(String[] args)
{
Fan[] f= new Fan[3];
f[0]=new Fan();
f[1]=new Fan();
f[2]=new Fan();
f[0].brand="Hyder";
f[0].cost=10000;
}
}
Writable
Smart Insert
23 : 11 : 281

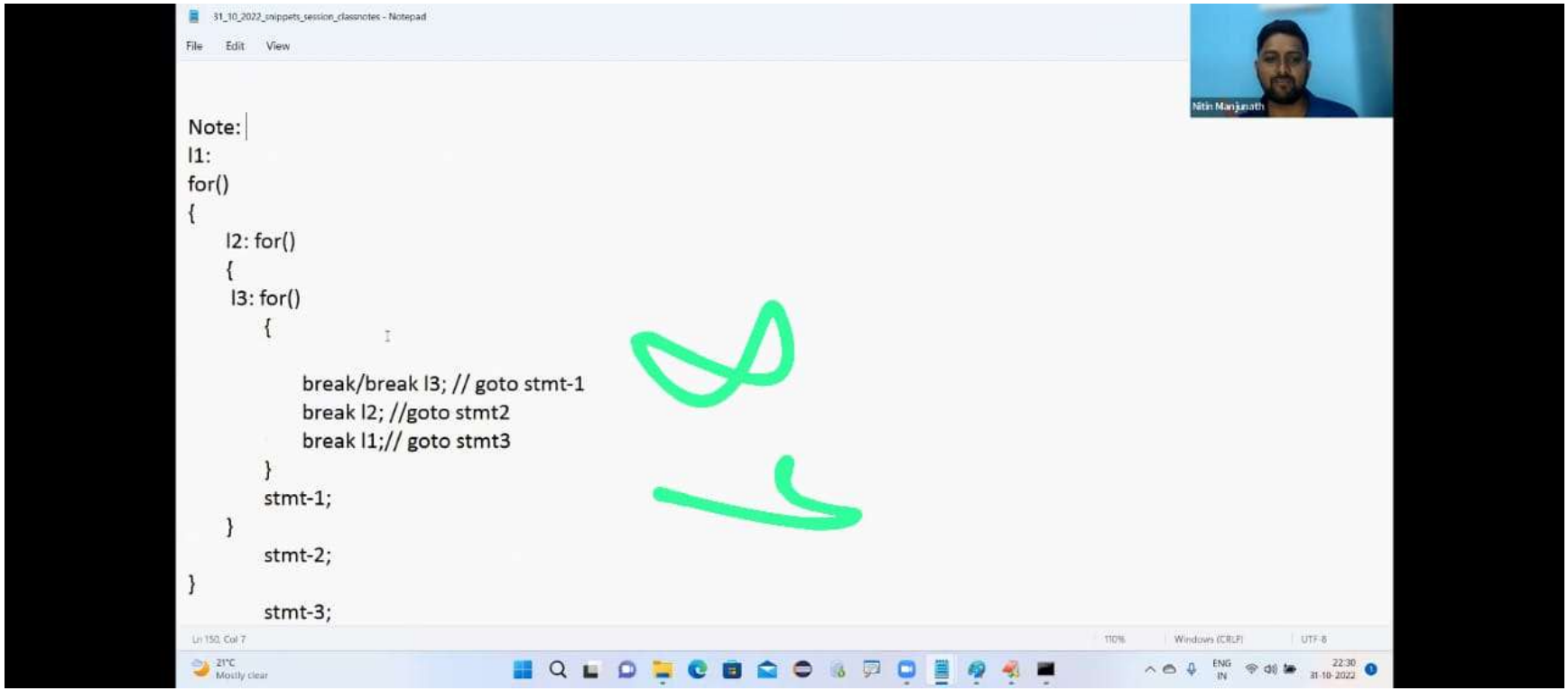

Google Keep
Google Keep
Google Keep
Google Keep
Neuro Lab | iNeuron
Launch2.java — work
9 minutes
keep.google.com/#NOTE/1666863463596.401359063
Hyder Abbas
Disadvantages
=> It can store only homogenes type Data.
int a[] = new int[4];
only integers values.
a[0] = 10;
a[1] = 10.5f
a[2] = "iNeuron"

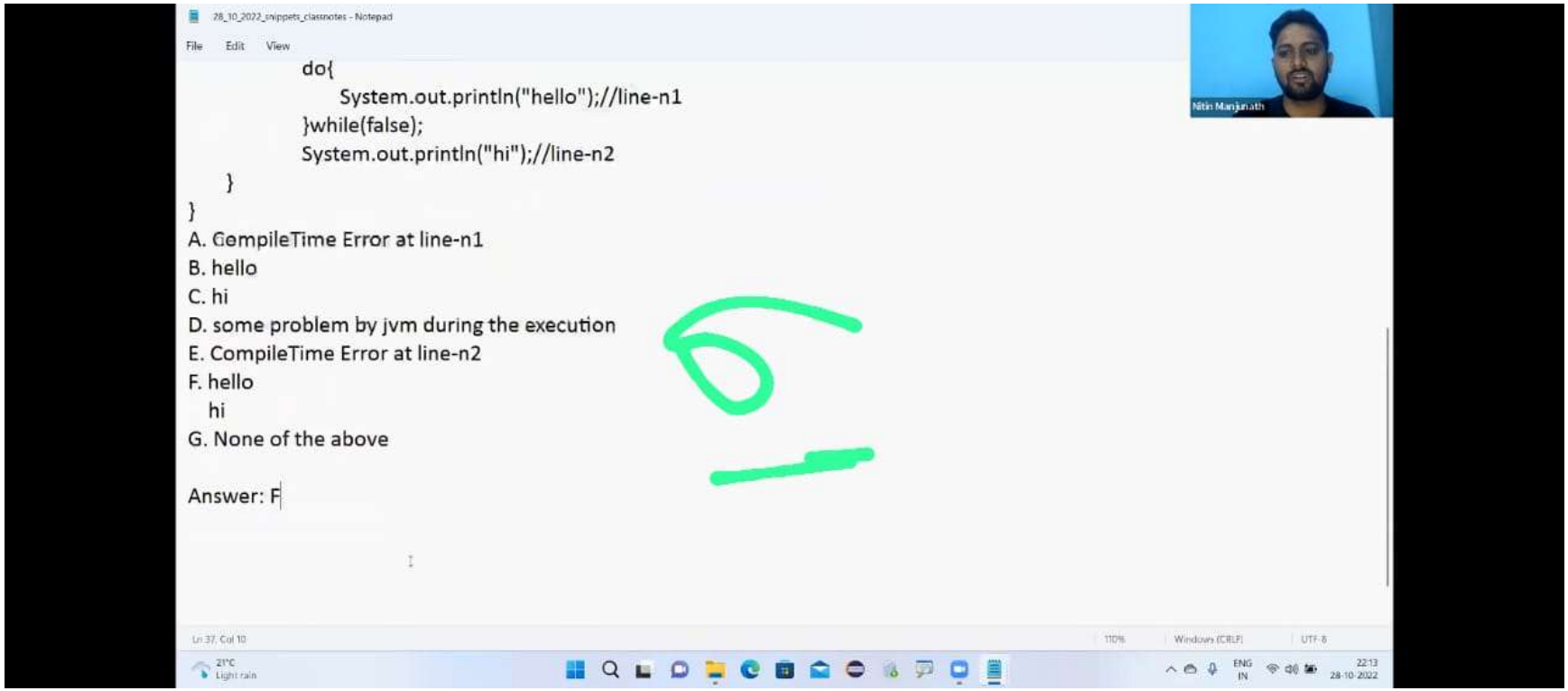

Package Explorer
Launch2.java
Launch3.java
Launch5.java
Launch6.java
Launch7.java
Launch9.java
Hyder Abbas
class Fan
{
int cost;
String brand;
int noOfWings;
}
public class Launch9
{
public static void main(String[] args)
{
Fan[] f= new Fan[3];
f[0]=new Fan();
f[1]=new Fan();
f[2]=new Fan();
f[0].brand="Hyder";
f[0].cost=10000;
}
}
Writable
Smart Insert
23 : 11 : 281

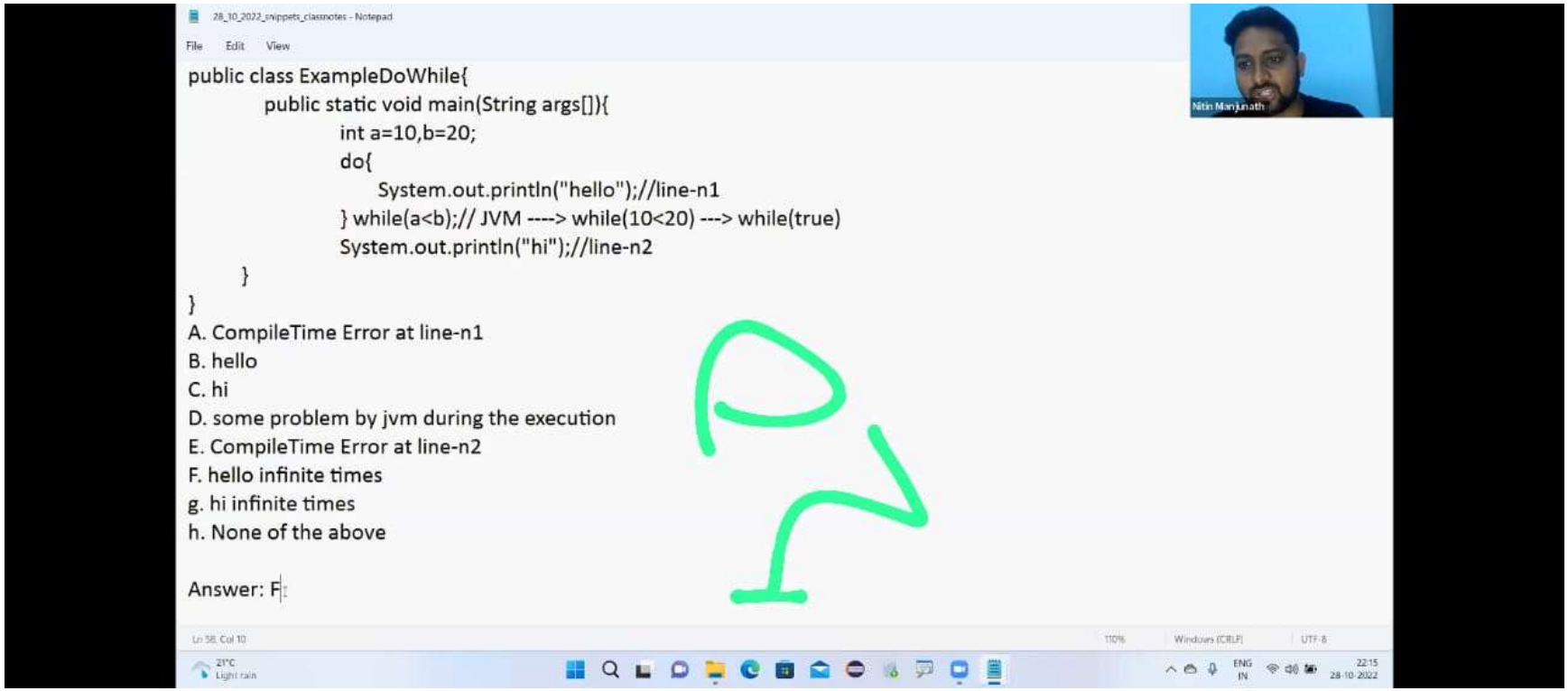

Package Explorer
LaunchMOCS3...
Launch5.java
Launch6.java
Launch7.java
*Launch8.java
*Launch9.java
*Launch10.java
Hyder Abbas
public class Launch10 {
public static void main(String[] args) {
// TODO Auto-generated method stub
int [] a1=new int[] {10,20};
int [] a= {10,20,30,40};
char [] c= {'i','N','B','I'};
int[][] ar= new int[][]{{10,20},{20,30}};
int[][] ar1= {{10,20,30},{20,30}};
int[][][] ar2= {{{10,20},{30,40}},{{50,60},{70,80}}};
}
}
The value of the local variable a is not used
Writable
Smart Insert
10 : 33 [24]

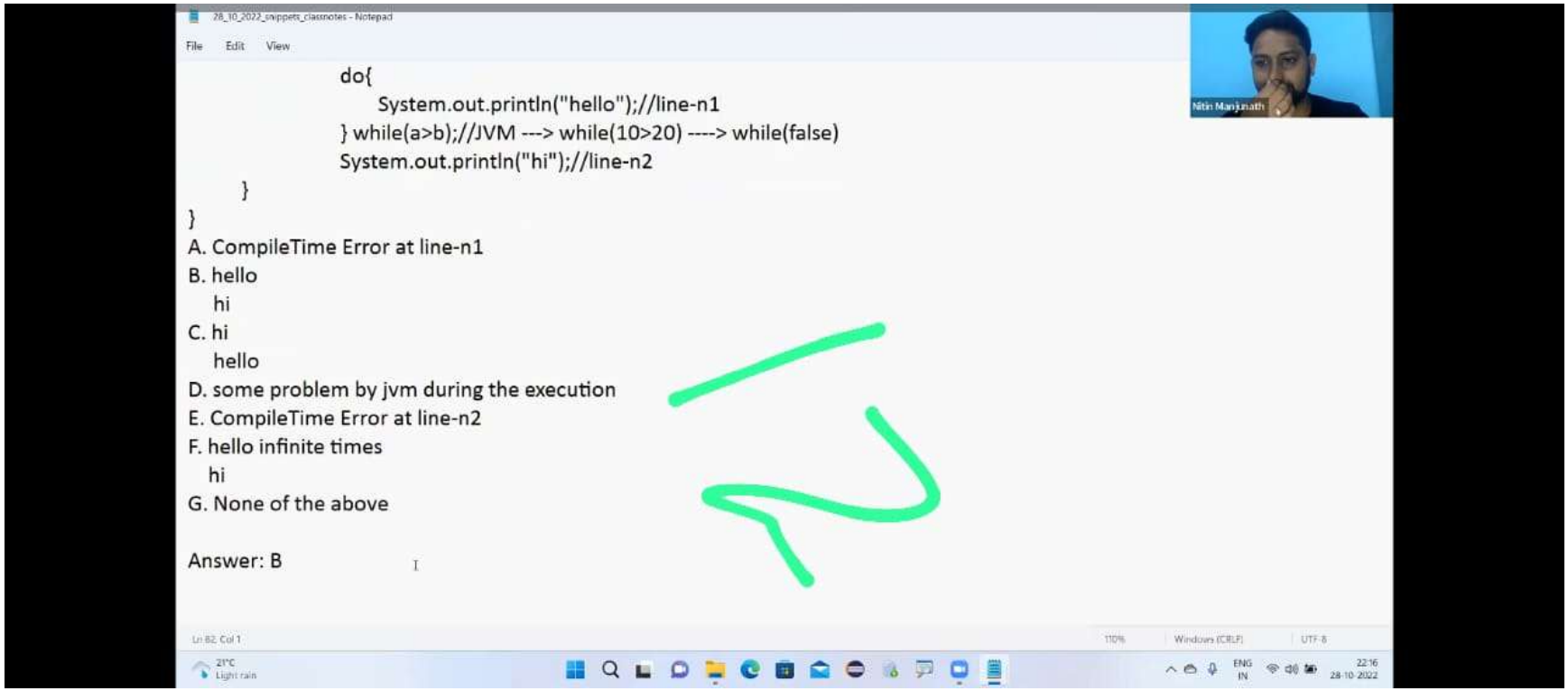

Package Explorer
LaunchMOCS3...
Launch5.java
Launch6.java
Launch7.java
Launch8.java
Launch9.java
Launch10.java
Launch11.java
Launch1.java
Launch2.java
Launch3.java
Launch4.java
Launch6.java
Launch7.java
Launch8.java
Launch9.java
CollectionAPI
Datatypes
DEMO
Encap
ExceptionHandling
Game
Inherita
Interf
LambdaExp
Launch
Live class Datatypes
Loops
Methods
LaunchCalc1.java
LaunchMO.java
LaunchMOCS.java
LaunchMOCS3.java
LaunchMOG.java
LaunchMOMain.java
LaunchMOSC2.java
MultiT
Operater
Quiz
Quiz-1
SampleWebApp
Static Prog
Strings live class
1 public class Launch11 {
2
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5
6 int a[]= {10,20,30,40};
7
8 for(int elem:a)
9 {
10 System.out.println(elem);
11 }
12
13
14 }
15
16 }
17
18
for-each
Start - End
a -> 10 20 30 40
0 1 2 3
Hyder Abbas
Writable
Smart Insert
15 : 9 : 209

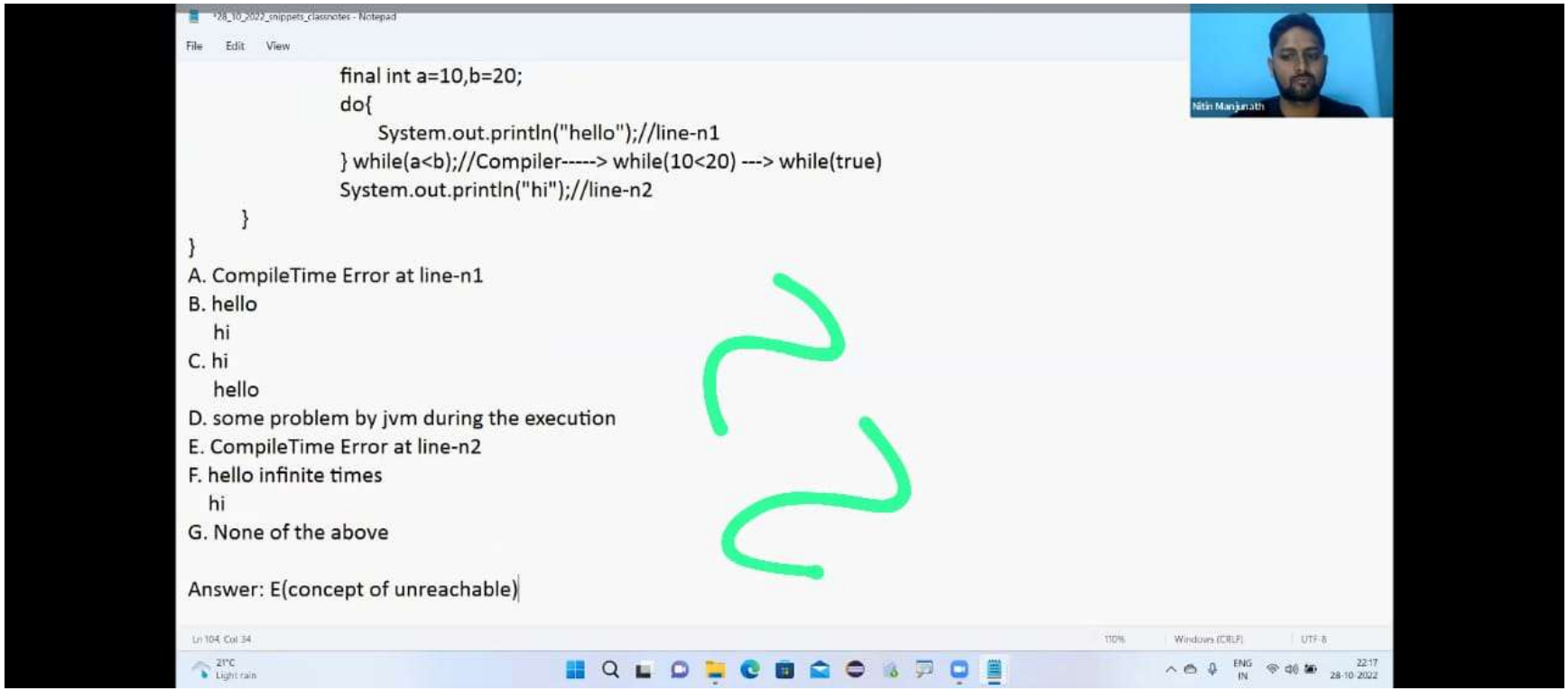

28_10_2022_snippets_classnotes - Notepad
File Edit View
Q>
public class ExampleDoWhile{
public static void main(String args[]){
do{
System.out.println("hello");//line-n1
}while(true);
System.out.println("hi");//line-n2
}
}
A. CompileTime Error at line-n1
B. hello infinite times
C. hi
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. None of the above
Answer: E
Nitin Manjunath
Ln 19, Col 1
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:11
28-10-2022

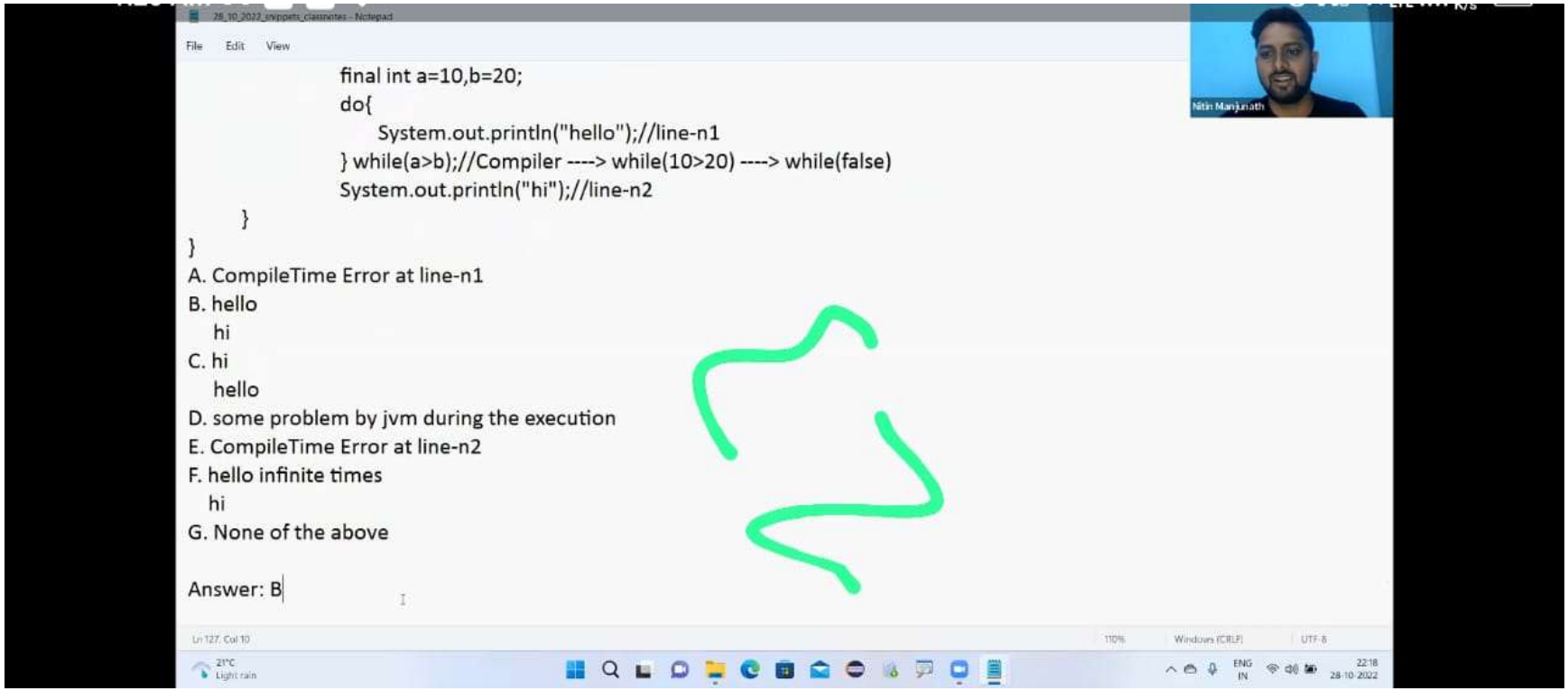

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Nitin Manjunath
Note:
l1:
for()
{
l2: for()
{
l3: for()
{
break/break l3; // goto stmt-1
break l2; //goto stmt2
break l1;// goto stmt3
}
stmt-1;
}
stmt-2;
}
stmt-3;
Ln 150, Col 7
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:30
31-10-2022

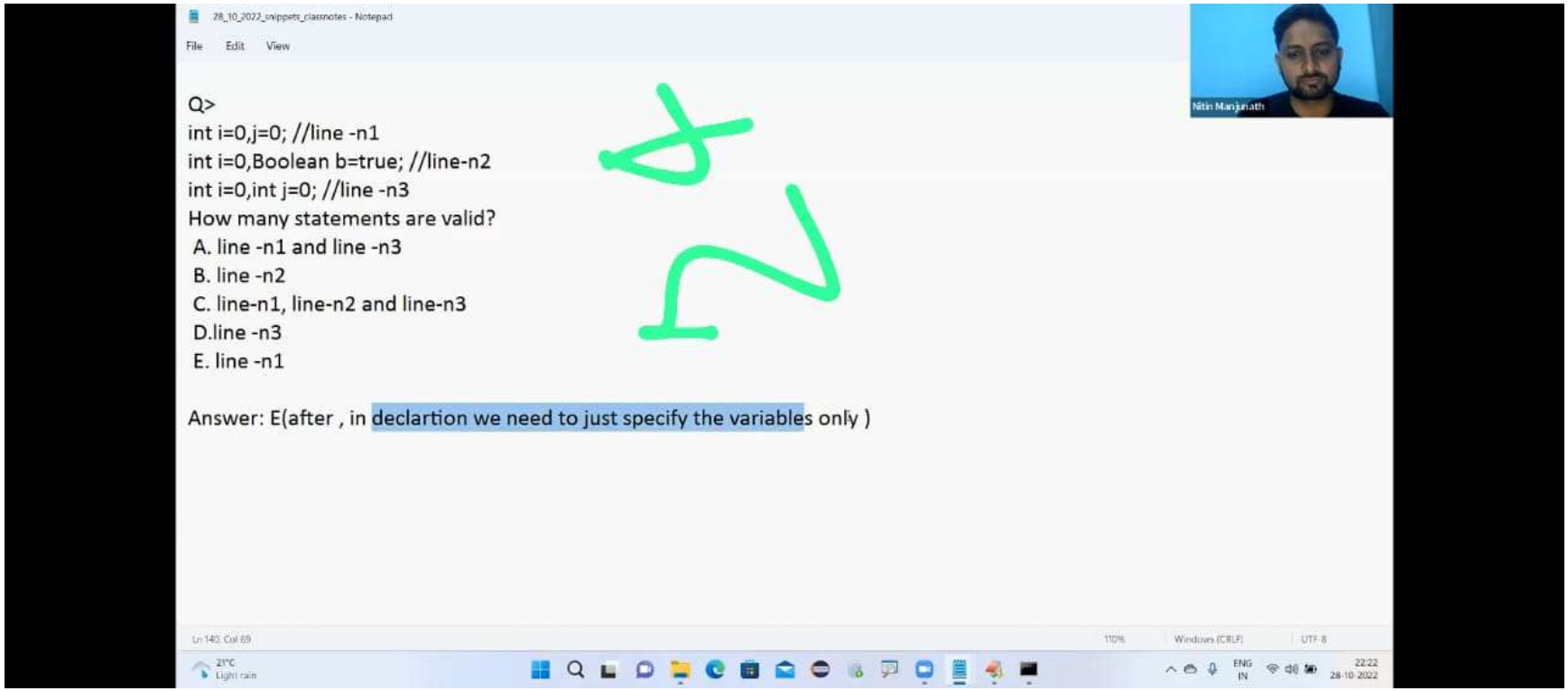

28_10_2022_snippets_classnotes - Notepad
File Edit View
do{
System.out.println("hello");//line-n1
}while(false);
System.out.println("hi");//line-n2
}
}
A. CompileTime Error at line-n1
B. hello
C. hi
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello
hi
G. None of the above
Answer: F
Nitin Manjunath
Ln 37, Col 10
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:13
28-10-2022

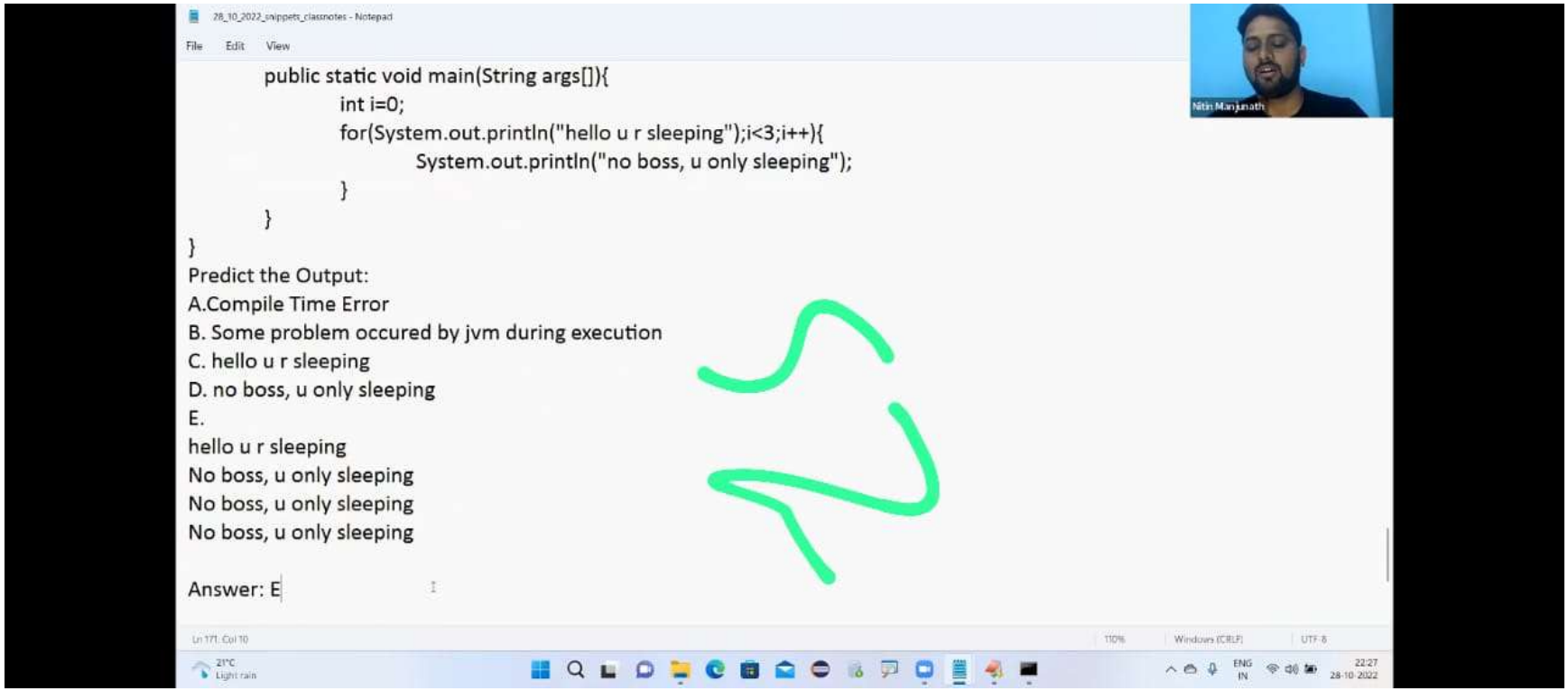

28_10_2022_snippets_classnotes - Notepad
File Edit View
public class ExampleDoWhile{
public static void main(String args[]){
int a=10,b=20;
do{
System.out.println("hello");//line-n1
} while(a<b);// JVM ----> while(10<20) ---> while(true)
System.out.println("hi");//line-n2
}
}
A. CompileTime Error at line-n1
B. hello
C. hi
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello infinite times
g. hi infinite times
h. None of the above
Answer: F
Nitin Manjunath
Ln 58, Col 10
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:15
28-10-2022

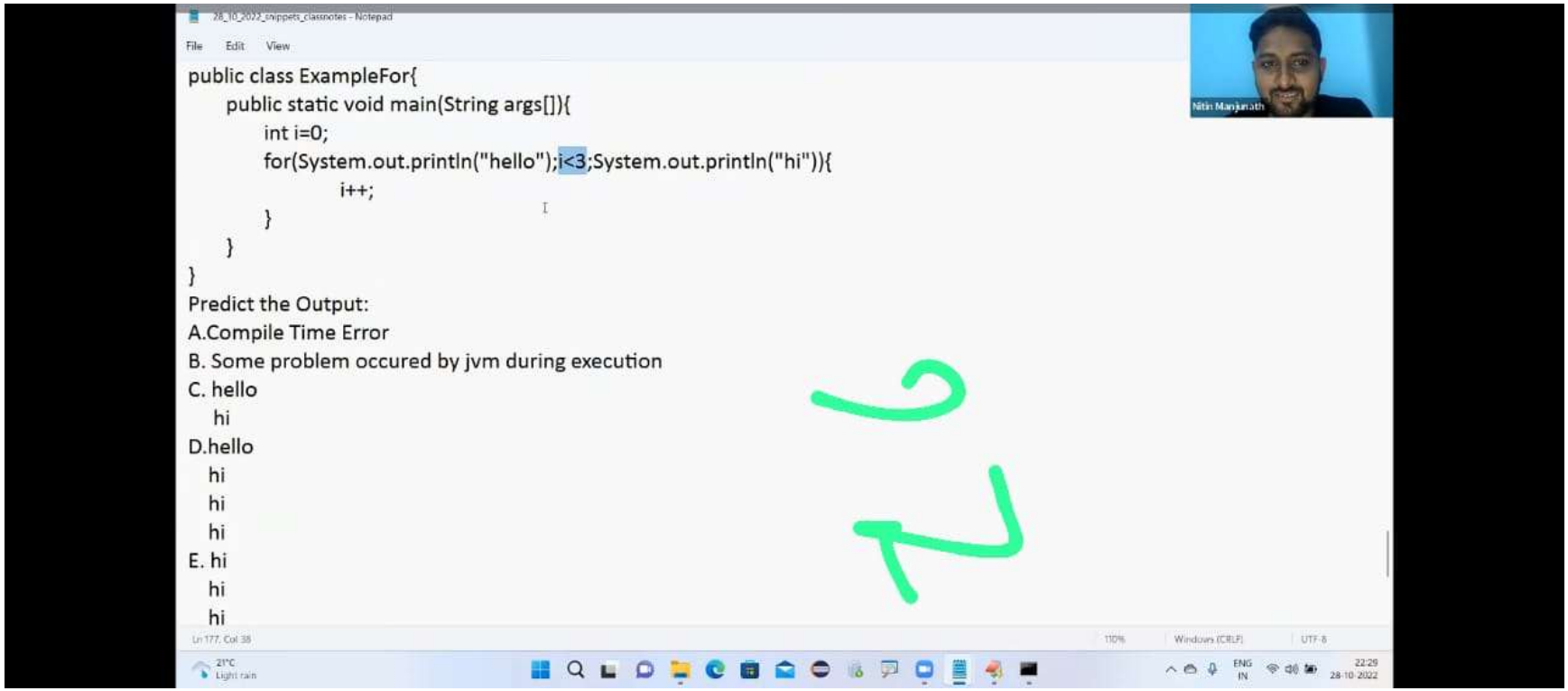

28_10_2022_snippets_classnotes - Notepad
File Edit View
do{
System.out.println("hello");//line-n1
} while(a>b);//JVM ---> while(10>20) ----> while(false)
System.out.println("hi");//line-n2
}
}
A. CompileTime Error at line-n1
B. hello
hi
C. hi
hello
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello infinite times
hi
G. None of the above
Answer: B
Nitin Manjunath

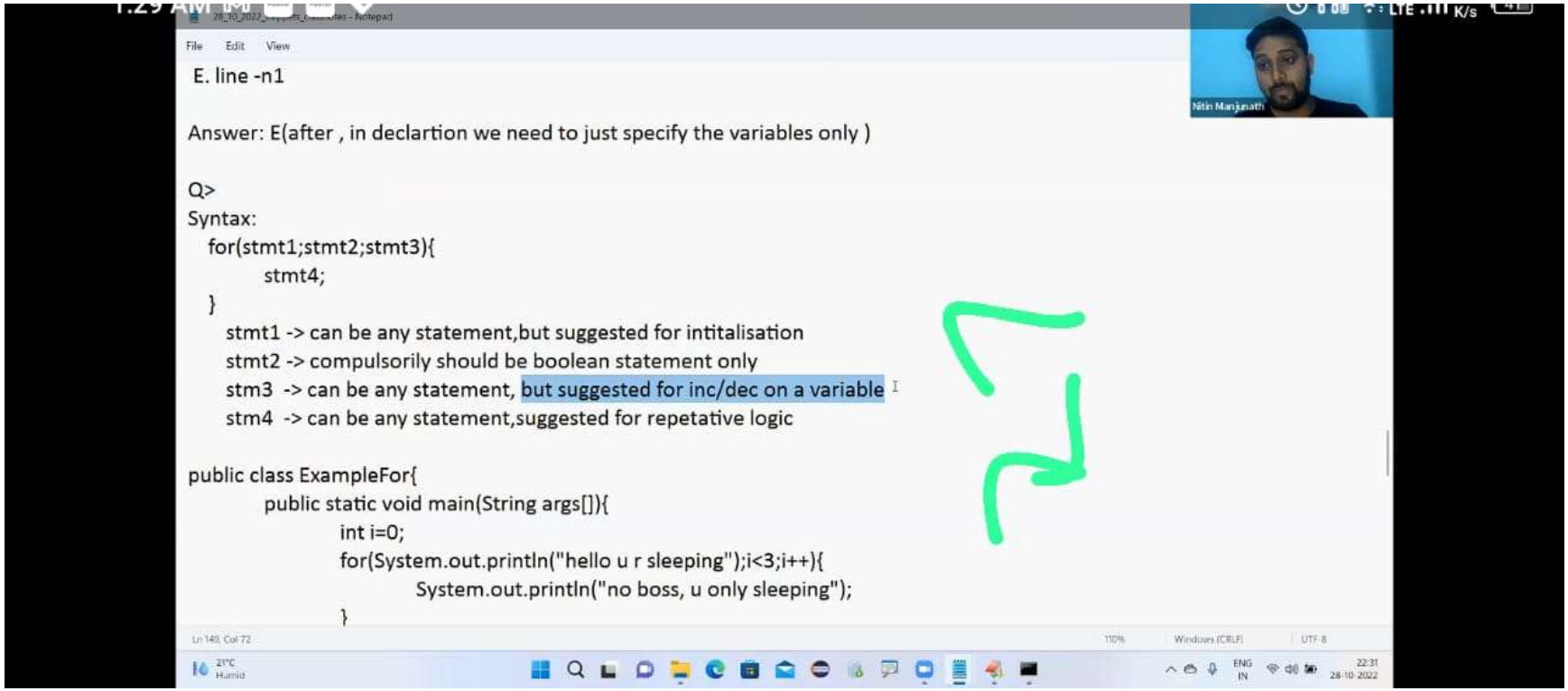

*28_10_2022_snippets_classnotes - Notepad
File Edit View
final int a=10,b=20;
do{
System.out.println("hello");//line-n1
} while(a<b);//Compiler-----> while(10<20) ---> while(true)
System.out.println("hi");//line-n2
}
}
A. CompileTime Error at line-n1
B. hello
hi
C. hi
hello
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello infinite times
hi
G. None of the above
Answer: E(concept of unreachable)
Nitin Manjunath
Ln 104, Col 34
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:17
28-10-2022

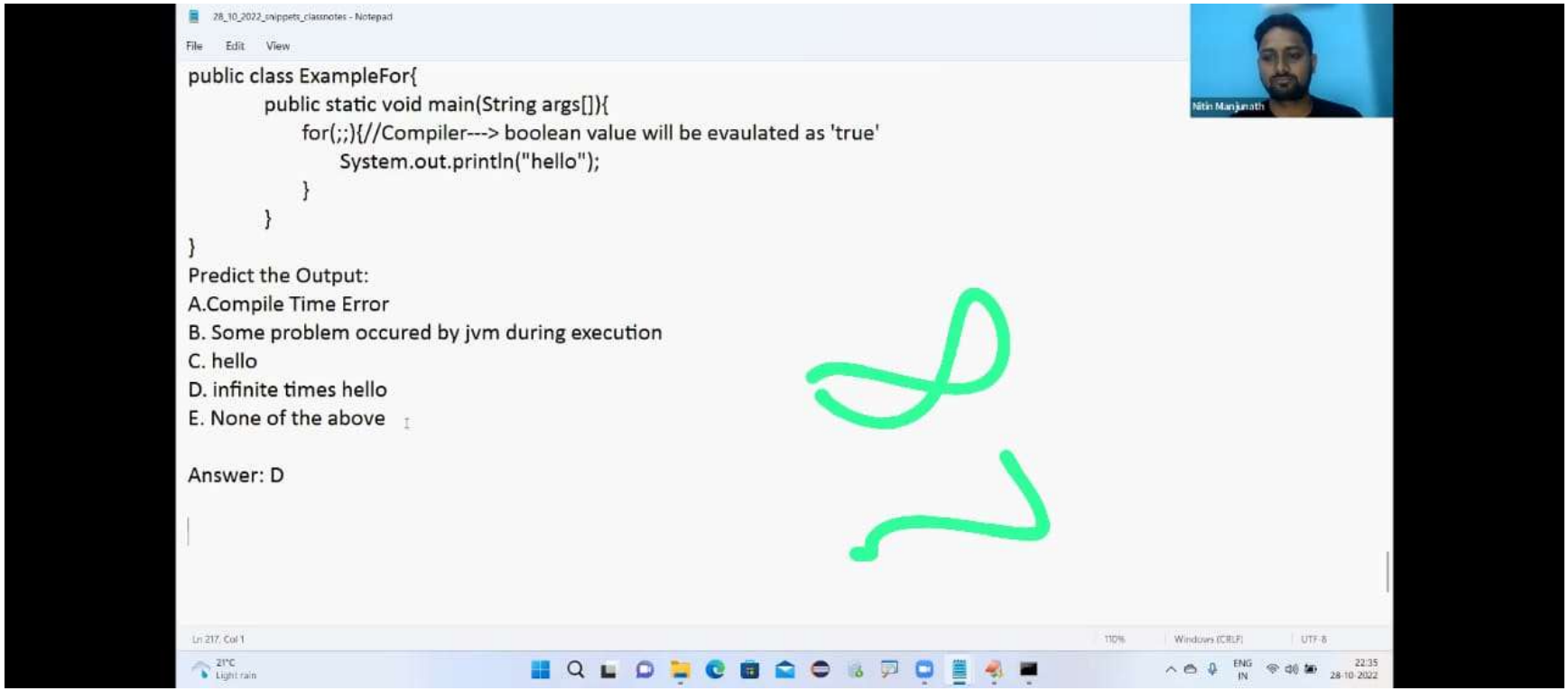

28_10_2022_snippets_classnotes - Notepad
File Edit View
final int a=10,b=20;
do{
System.out.println("hello");//line-n1
} while(a>b);//Compiler ----> while(10>20) ----> while(false)
System.out.println("hi");//line-n2
}
}
A. CompileTime Error at line-n1
B. hello
hi
C. hi
hello
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello infinite times
hi
G. None of the above
Answer: B
Nitin Manjunath
Ln 127, Col 10
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:18
28-10-2022

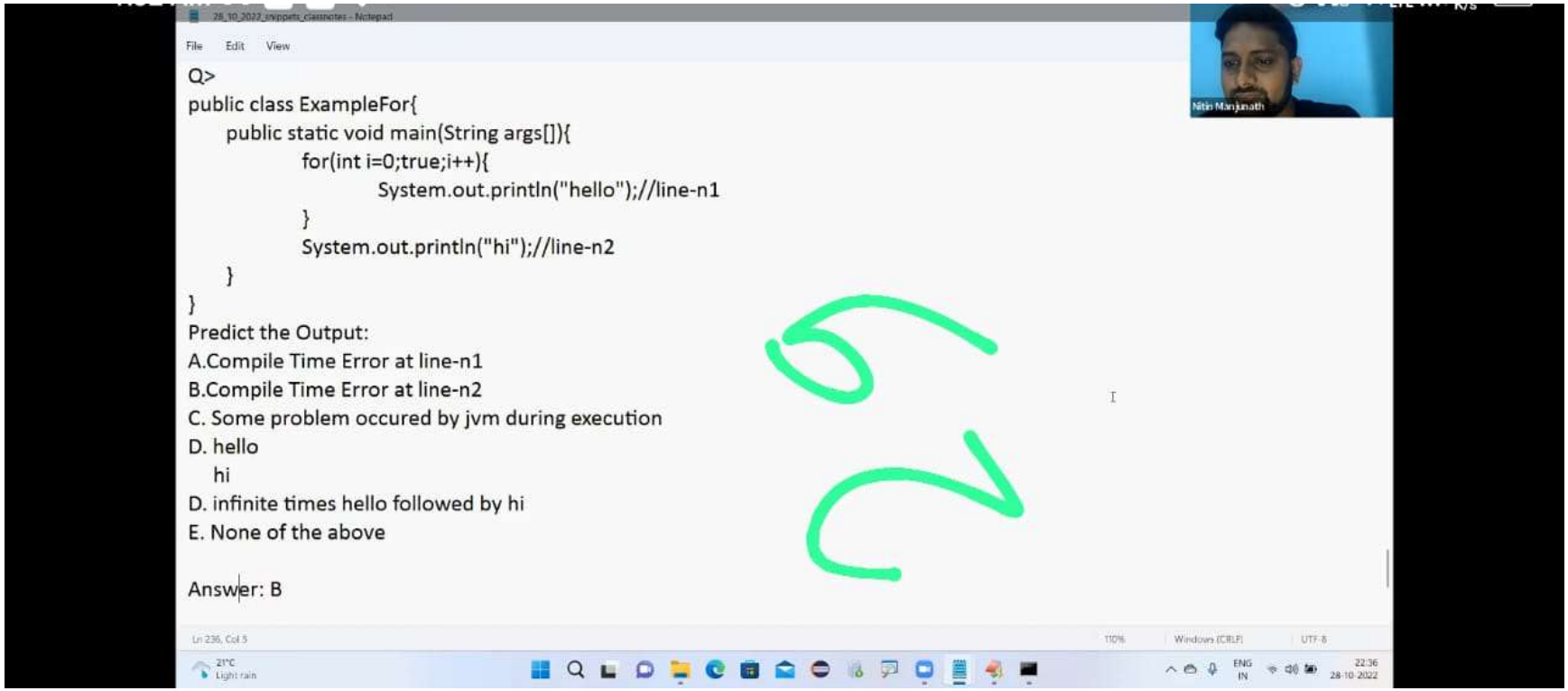

28_10_2022_snippets_classnotes - Notepad
File Edit View
Nitin Manjunath
Q>
int i=0,j=0; //line -n1
int i=0,Boolean b=true; //line-n2
int i=0,int j=0; //line -n3
How many statements are valid?
A. line -n1 and line -n3
B. line -n2
C. line-n1, line-n2 and line-n3
D.line -n3
E. line -n1
Answer: E(after , in declartion we need to just specify the variables only)
Ln 140, Col 69
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:22
28-10-2022

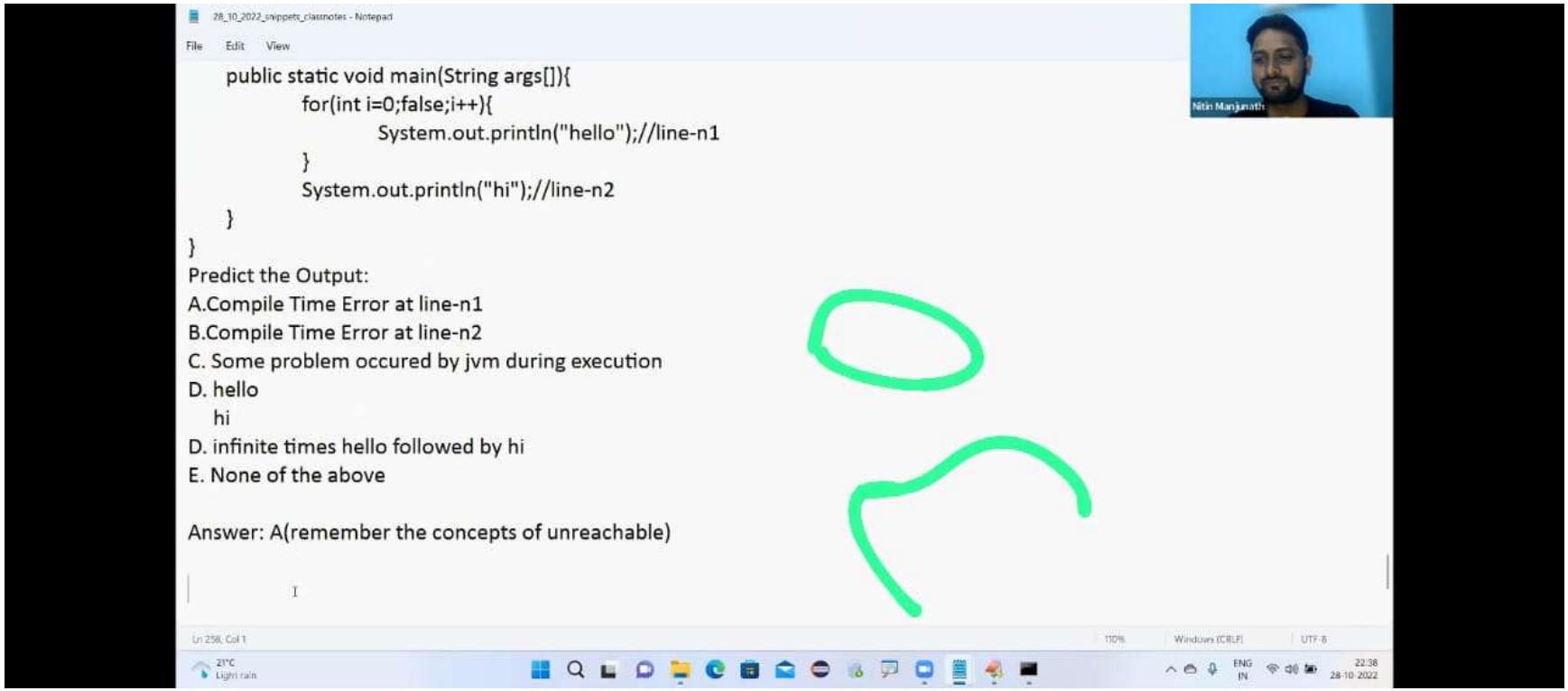

28_10_2022_snippets_classnotes - Notepad
File Edit View
public static void main(String args[]){
int i=0;
for(System.out.println("hello u r sleeping");i<3;i++){
System.out.println("no boss, u only sleeping");
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C. hello u r sleeping
D. no boss, u only sleeping
E.
hello u r sleeping
No boss, u only sleeping
No boss, u only sleeping
No boss, u only sleeping
Answer: E
Nitin Manjunath

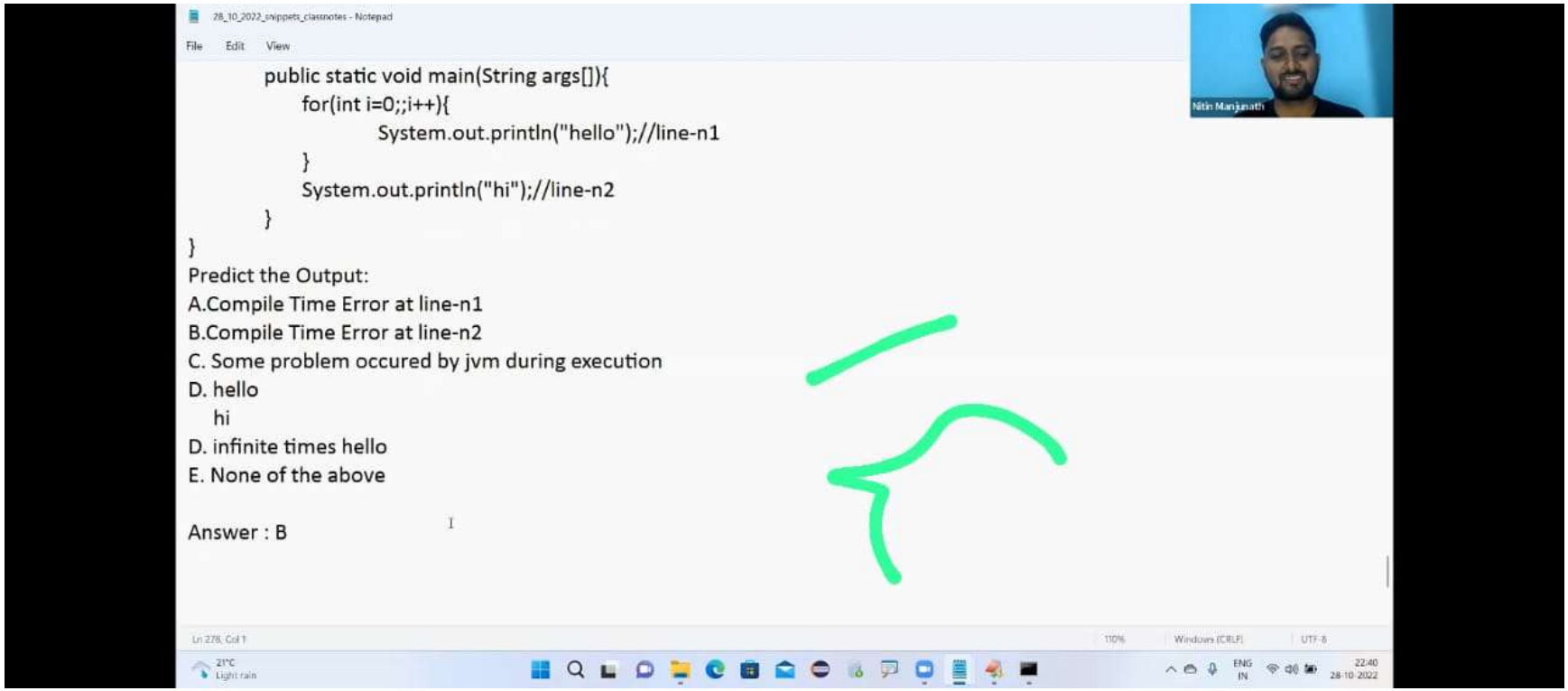

28_10_2022_snippets_classnotes - Notepad
File Edit View
public class ExampleFor{
public static void main(String args[]){
int i=0;
for(System.out.println("hello");i<3;System.out.println("hi")){
i++;
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C. hello
hi
D.hello
hi
hi
hi
E. hi
hi
hi
Nitin Manjunath
Ln 177, Col 38
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:29
28-10-2022

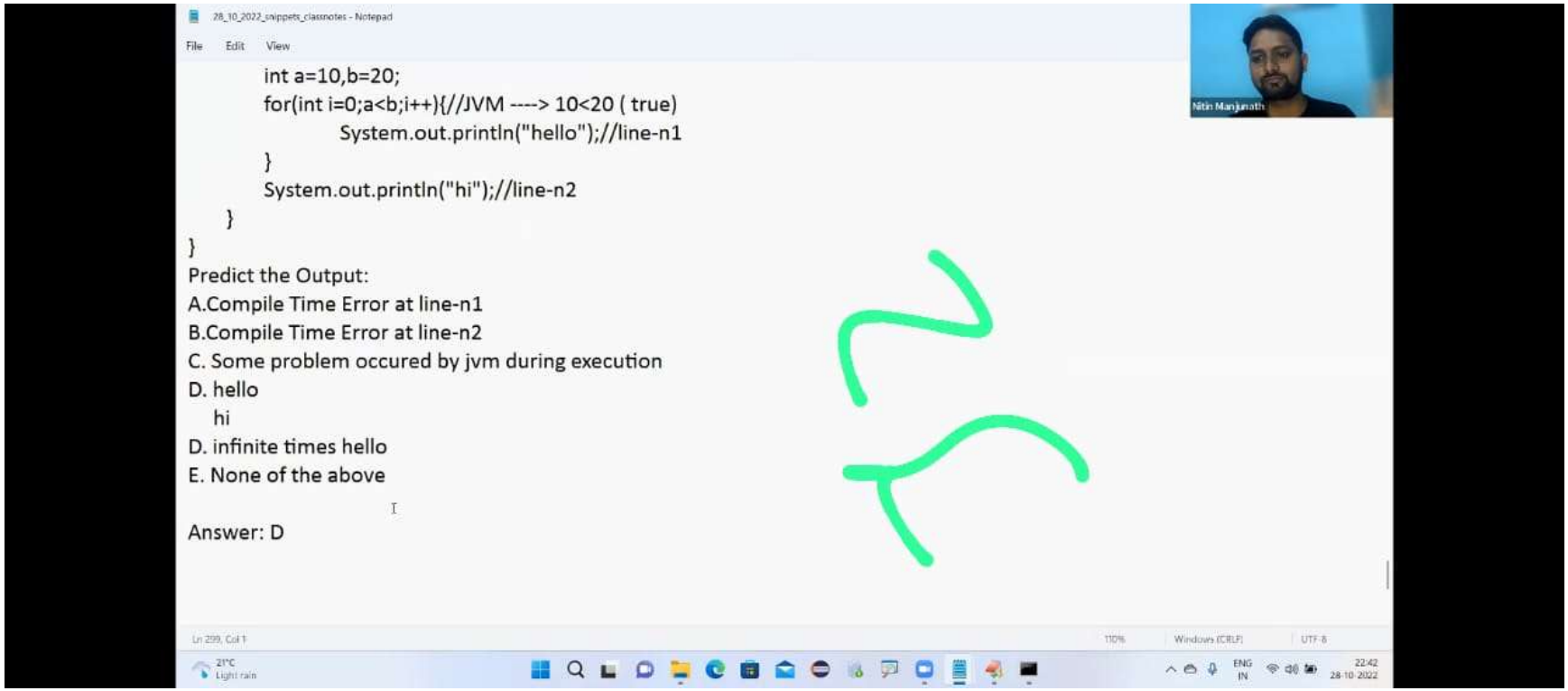

File Edit View
E. line -n1
Answer: E(after , in declartion we need to just specify the variables only)
Q>
Syntax:
for(stmt1;stmt2;stmt3){
stmt4;
}
stmt1 -> can be any statement,but suggested for intitalisation
stmt2 -> compulsorily should be boolean statement only
stm3 -> can be any statement, but suggested for inc/dec on a variable
stm4 -> can be any statement,suggested for repetative logic
public class ExampleFor{
public static void main(String args[]){
int i=0;
for(System.out.println("hello u r sleeping");i<3;i++){
System.out.println("no boss, u only sleeping");
}
Nitin Manjunath

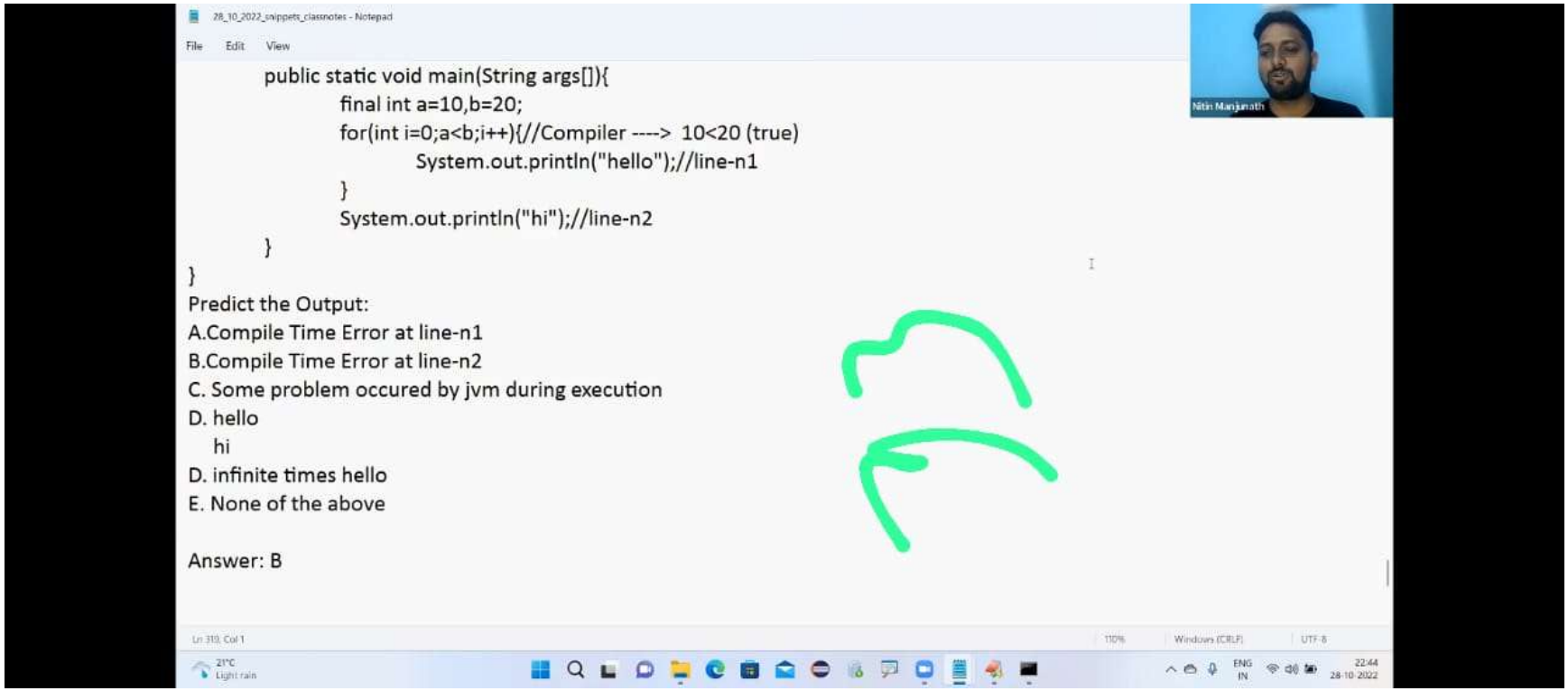

28_10_2022_snippets_classnotes - Notepad
File Edit View
public class ExampleFor{
public static void main(String args[]){
for(;;){//Compiler---> boolean value will be evaulated as 'true'
System.out.println("hello");
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C. hello
D. infinite times hello
E. None of the above
Answer: D
Nitin Manjunath
Ln 217, Col 1
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:35
28-10-2022


28_10_2022_snippets_classnotes - Notepad
File Edit View
Q>
public class ExampleFor{
public static void main(String args[]){
for(int i=0;true;i++){
System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
}
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C. Some problem occured by jvm during execution
D. hello
hi
D. infinite times hello followed by hi
E. None of the above
Answer: B
Nitin Manjunath
Ln 236, Col 5
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:36
28-10-2022


28_10_2022_snippets_classnotes - Notepad
File Edit View
public static void main(String args[]){
for(int i=0;false;i++){
System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
}
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C. Some problem occured by jvm during execution
D. hello
hi
D. infinite times hello followed by hi
E. None of the above
Answer: A(remember the concepts of unreachable)
Nitin Manjunath


28_10_2022_snippets_classnotes - Notepad
File Edit View
public static void main(String args[]){
for(int i=0;;i++){
System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
}
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C. Some problem occured by jvm during execution
D. hello
hi
D. infinite times hello
E. None of the above
Answer : B
Nitin Manjunath


28_10_2022_snippets_classnotes - Notepad
File Edit View
int a=10,b=20;
for(int i=0;a<b;i++){//JVM ----> 10<20 (true)
System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
}
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C. Some problem occured by jvm during execution
D. hello
hi
D. infinite times hello
E. None of the above
Answer: D
Nitin Manjunath


28_10_2022_snippets_classnotes - Notepad
File Edit View
public static void main(String args[]){
final int a=10,b=20;
for(int i=0;a<b;i++){//Compiler ----> 10<20 (true)
System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
}
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C. Some problem occured by jvm during execution
D. hello
hi
D. infinite times hello
E. None of the above
Answer: B
Nitin Manjunath

*28_10_2022_snippets_classnotes - Notepad

File Edit View

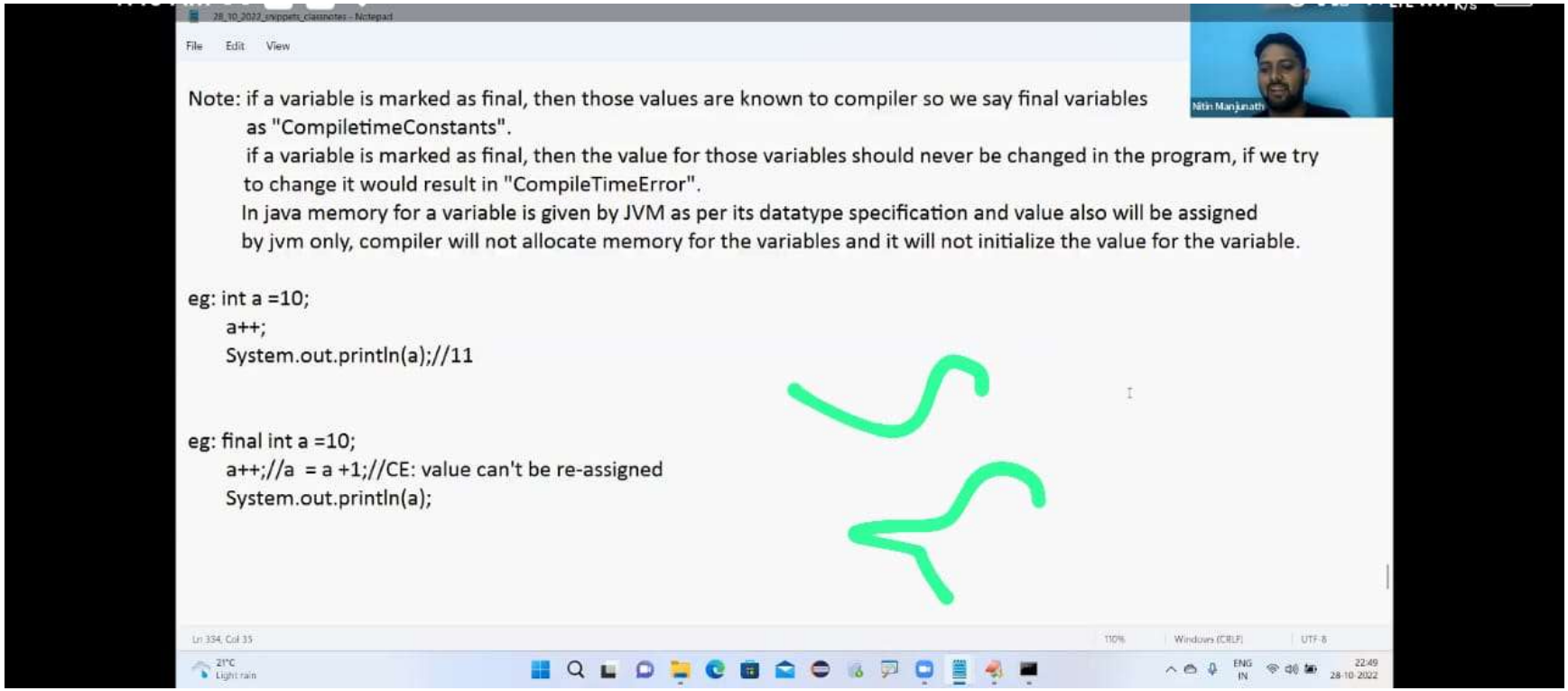
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C. Some problem occured by jvm during execution
D. hello
hi
E. infinite times hello
. None of the above

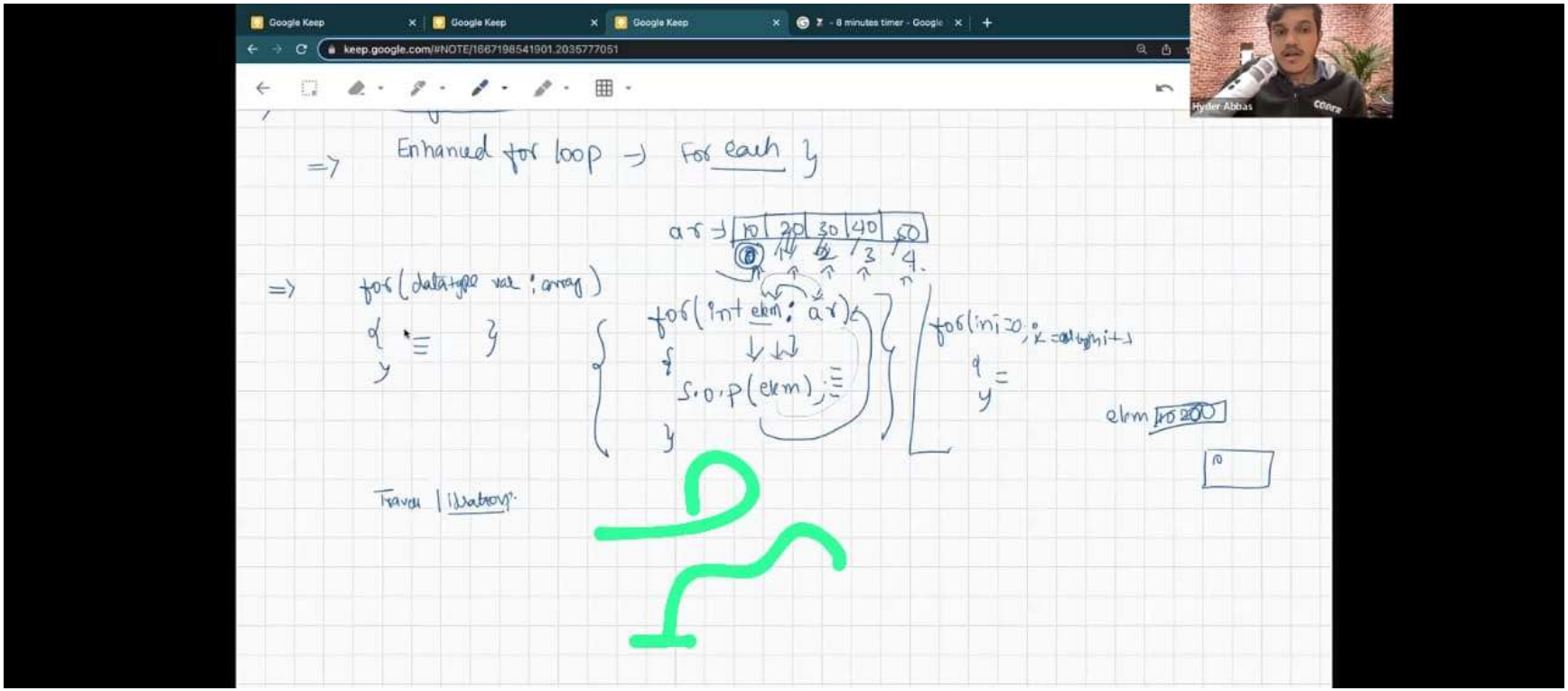
Answer: B

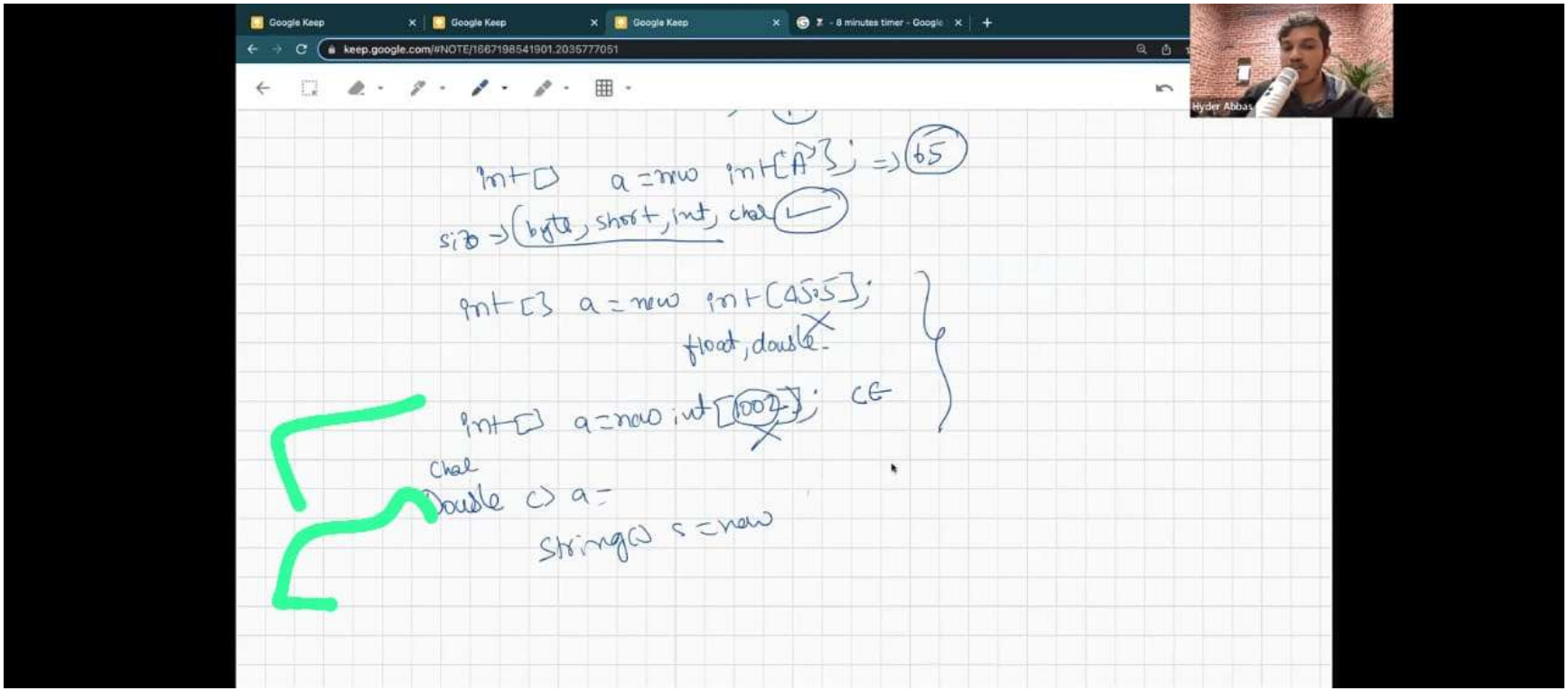
Note: if a variable is marked as final, then those values are known to compiler so we say final variables as "CompiletimeConstants".
if a variable is marked as final, then the value for those variables should never be changed in the program, if we try to change it would result in "CompileTimeError".
In java memory for a variable is given by JVM as per its datatype specification and value also will be assigned by jvm only, compiler will not allocate memory for the variables and it will not initialize the value for the variable.

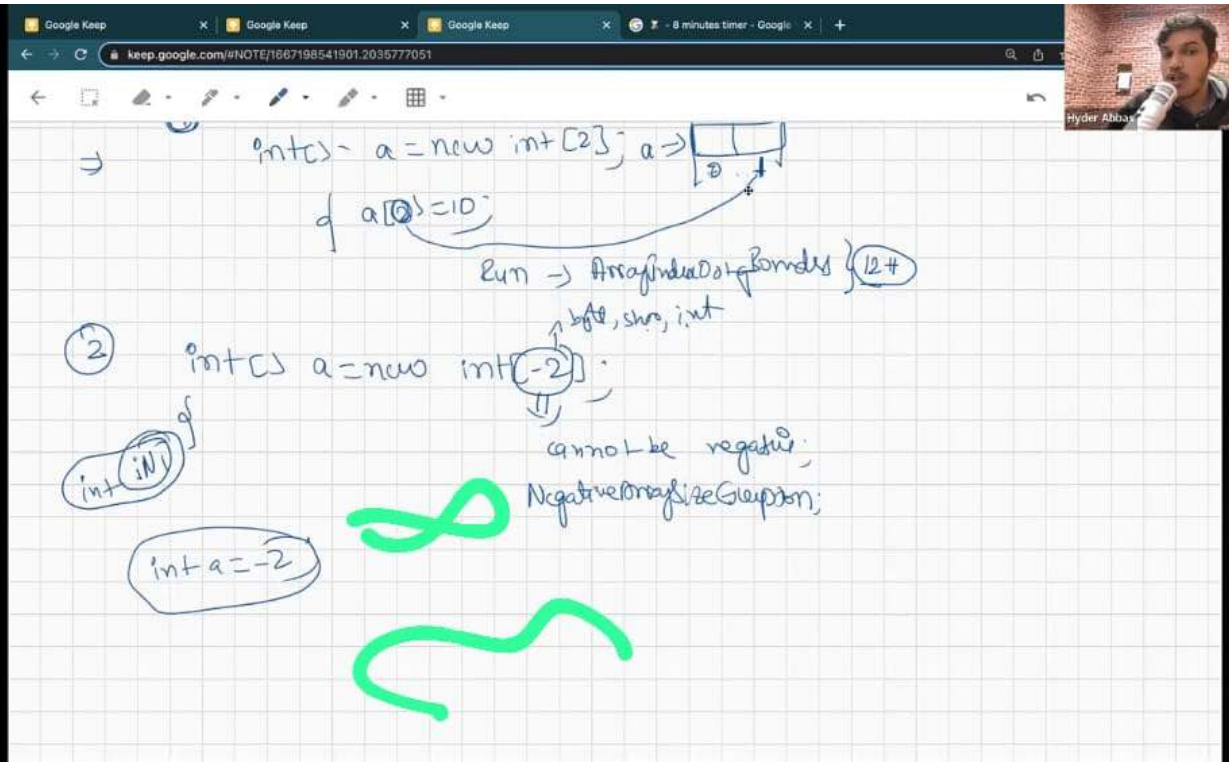
Ln 316, Col 1 110% Windows (CRLF) UTF-8

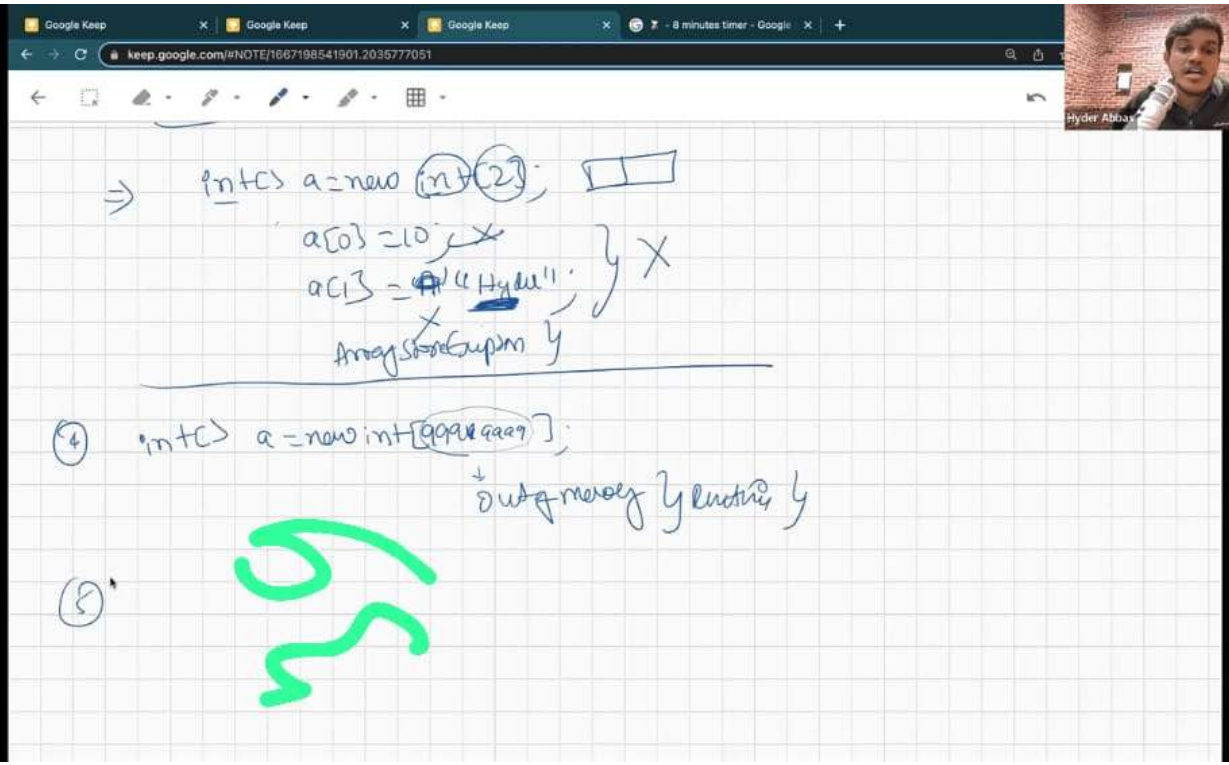
21°C Light rain ENG IN 22:48 28-10-2022

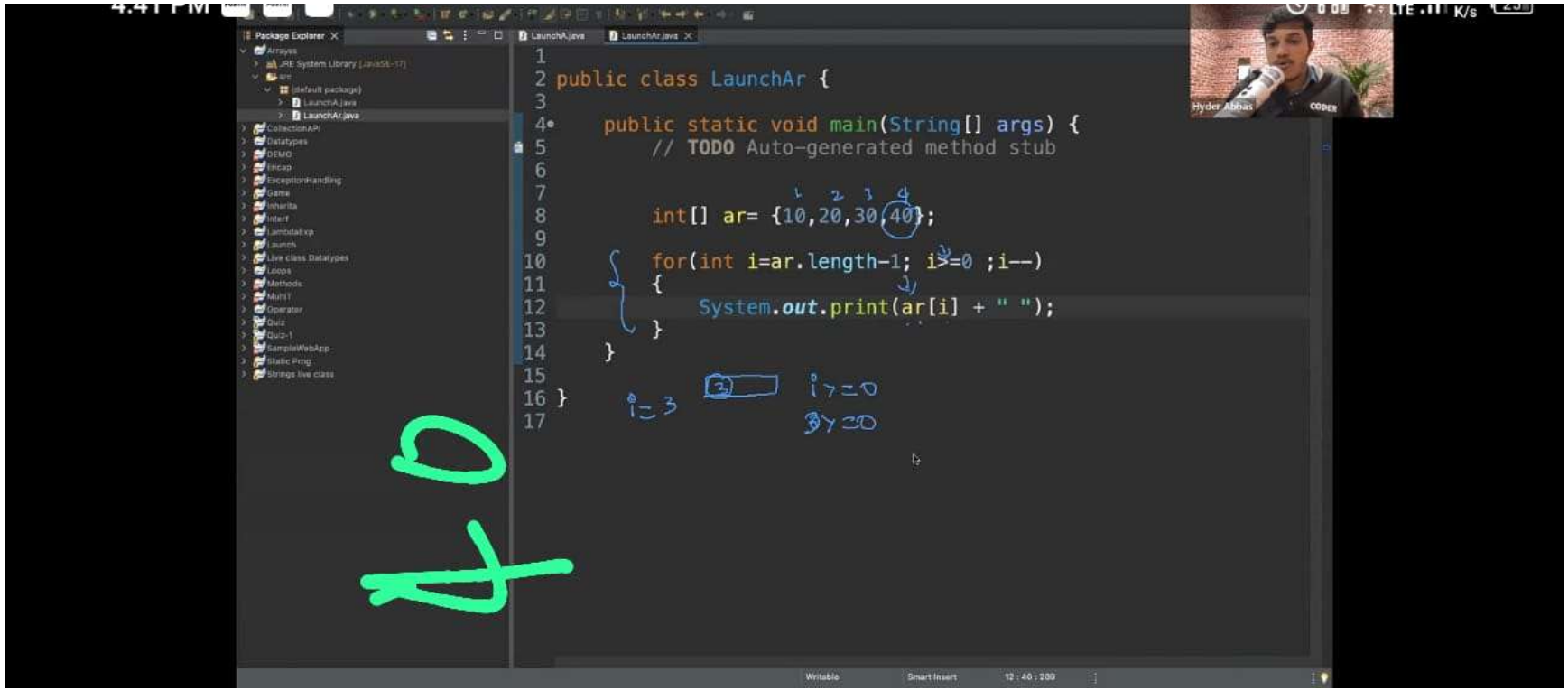

28_10_2022_snippets_classnotes - Notepad
File Edit View
Nitin Manjunath
Note: if a variable is marked as final, then those values are known to compiler so we say final variables as "CompiletimeConstants".
if a variable is marked as final, then the value for those variables should never be changed in the program, if we try to change it would result in "CompileTimeError".
In java memory for a variable is given by JVM as per its datatype specification and value also will be assigned by jvm only, compiler will not allocate memory for the variables and it will not initialize the value for the variable.
eg: int a =10;
a++;
System.out.println(a);//11
eg: final int a =10;
a++;//a = a +1;//CE: value can't be re-assigned
System.out.println(a);
Ln 334, Col 35
110%
Windows (CRLF)
UTF-8
21°C
Light rain
ENG
IN
22:49
28-10-2022

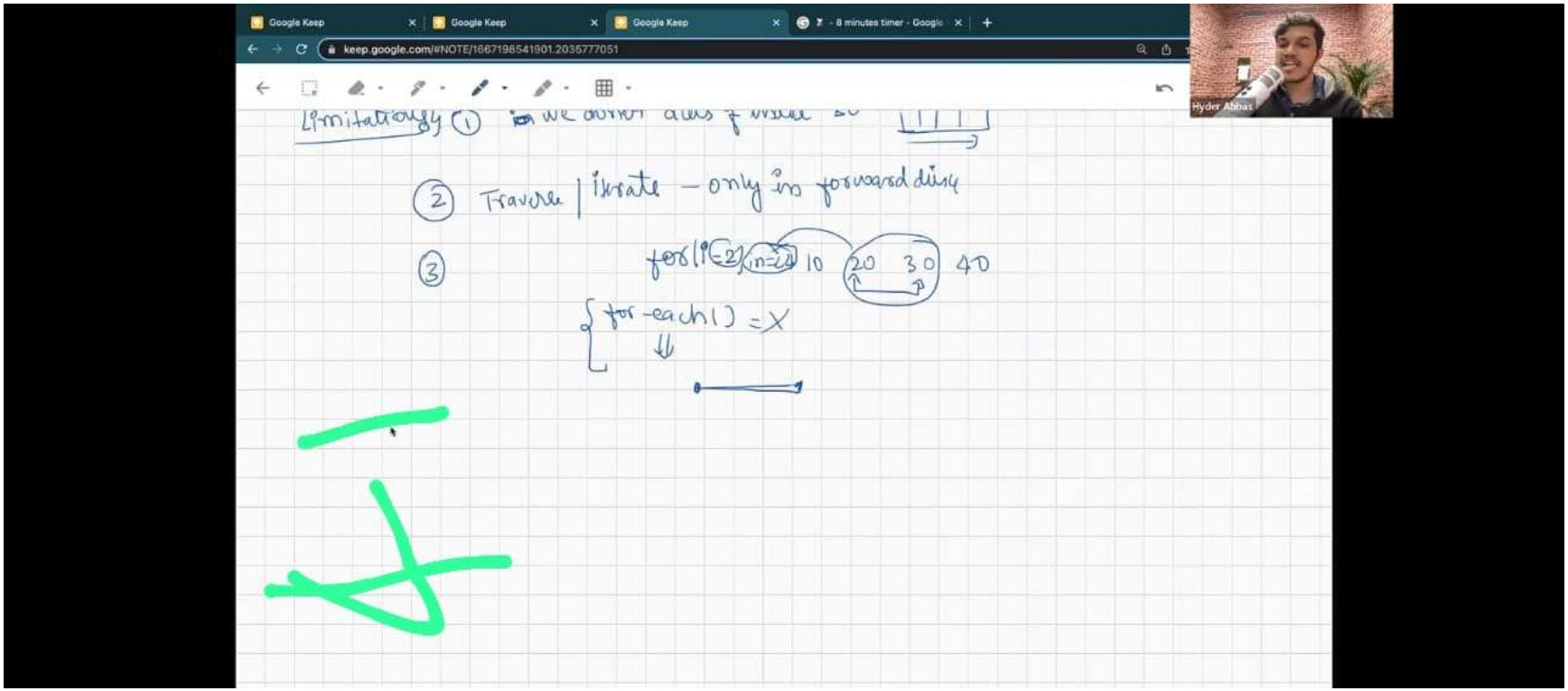

Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
=> Enhanced for loop -> For each
ar
10 20 30 40 50
0 1 2 3 4
=> for(datatype var : array)
{
}
for(int elm : ar)
{
S.o.p(elm);
}
for(ini;i<=ar.length;i++)
{
}
elm
Travel Iterators.

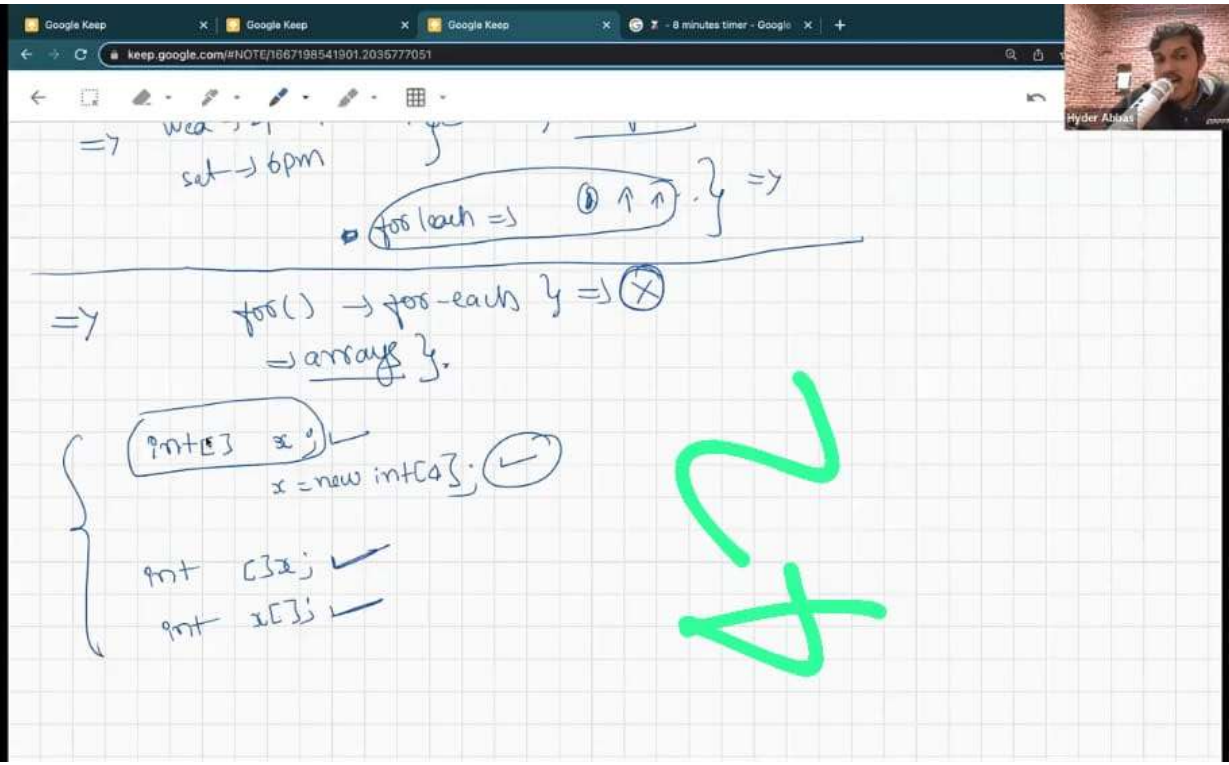

Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
int[] a = new int[A]; => 65
size => (byte, short, int, char)
int[] a = new int[45.5];
float, double
int[] a = new int[100];
char
Double c) a =
String s = new


Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
int[] a = new int[2]; a →
a[0] = 10;
Run → ArrayIndexOutOfBounds 124
byte, short, int
int[] a = new int[-2];
cannot be negative;
NegativeArraySizeException;
int a = -2;


Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
int[] a = new int[2];
a[0] = 10;
a[1] = "Hyder";
X
ArrayStoreException
(4)
int[] a = new int[qqqqqqqqq];
OutOfMemoryError
(5)


Package Explorer
LaunchA.java
LaunchAr.java
public class LaunchAr {
public static void main(String[] args) {
// TODO Auto-generated method stub
int[] ar= {10,20,30,40};
for(int i=ar.length-1; i>=0 ;i--)
{
System.out.print(ar[i] + " ");
}
}
}
Writable
Smart Insert
12 : 40 : 209


Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/16671985419O1.2035777051
Hyder Abbas
Limitations ①
② Traverse | iterate – only in forward direction
③
for(i=2; i<=4; i++) 10 20 30 40
{ for-each() = X


Google Keep
Google Keep
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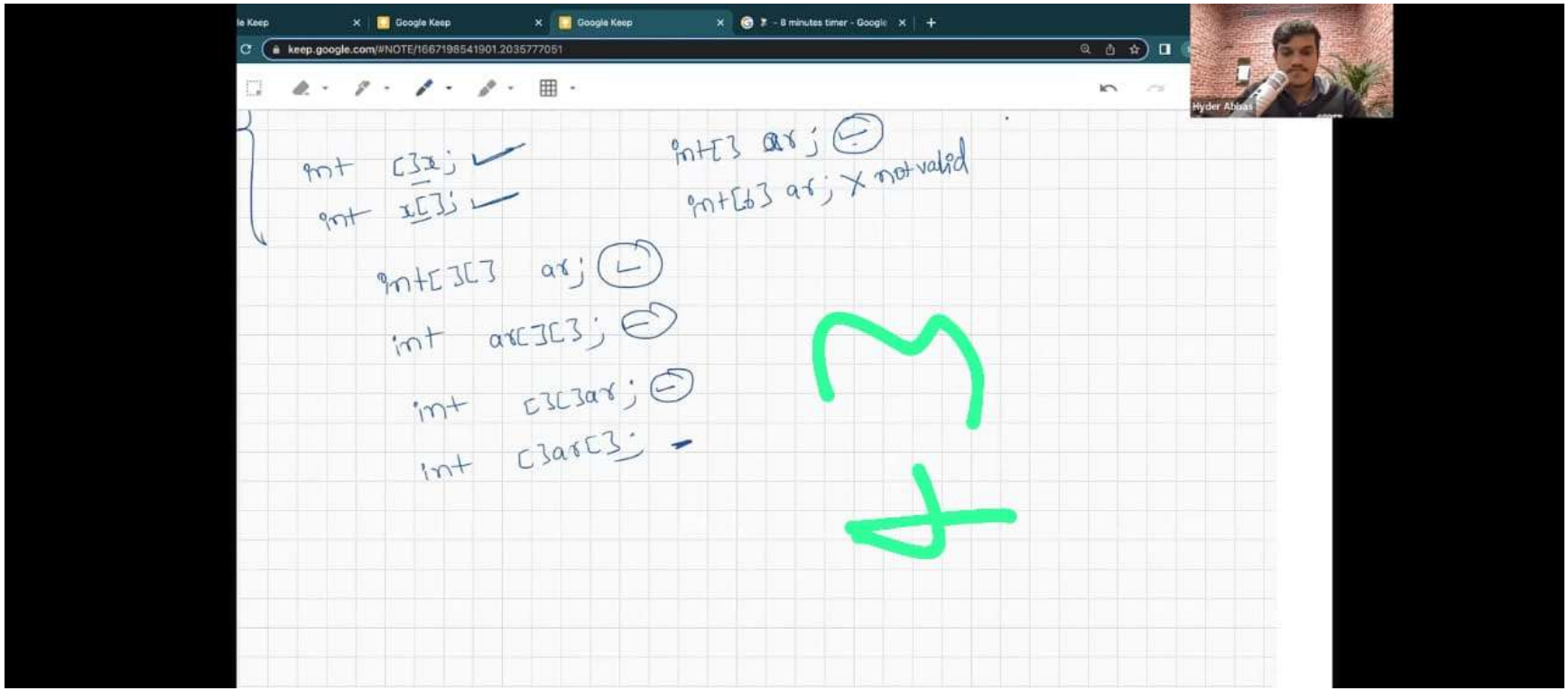
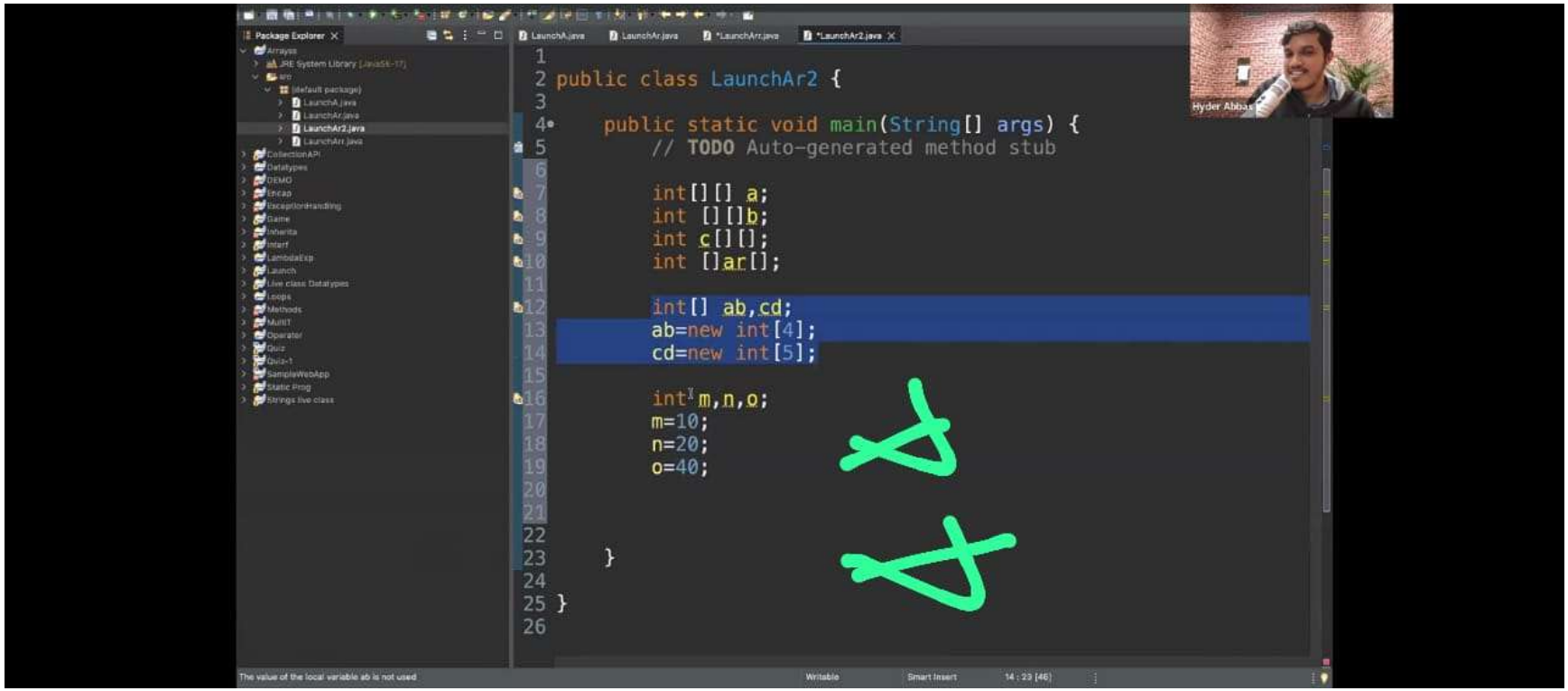
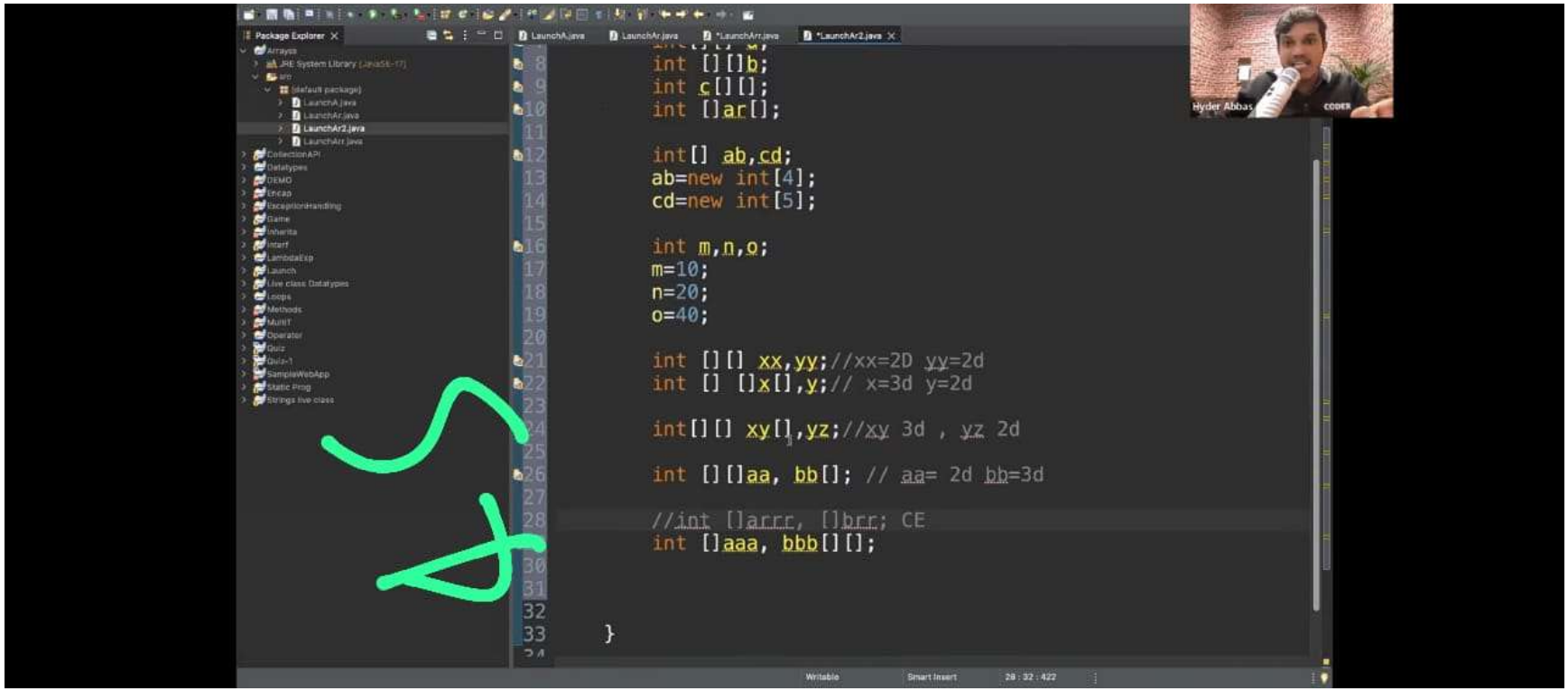
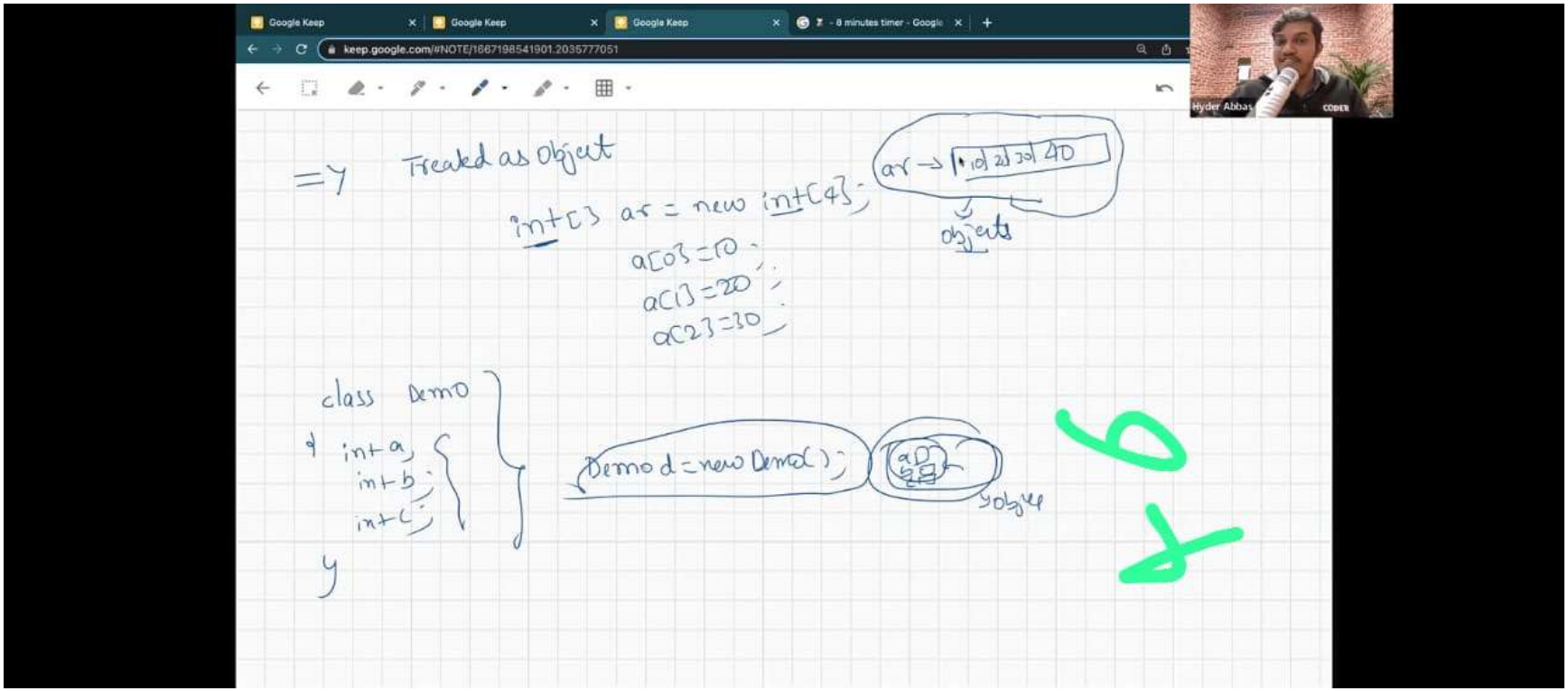
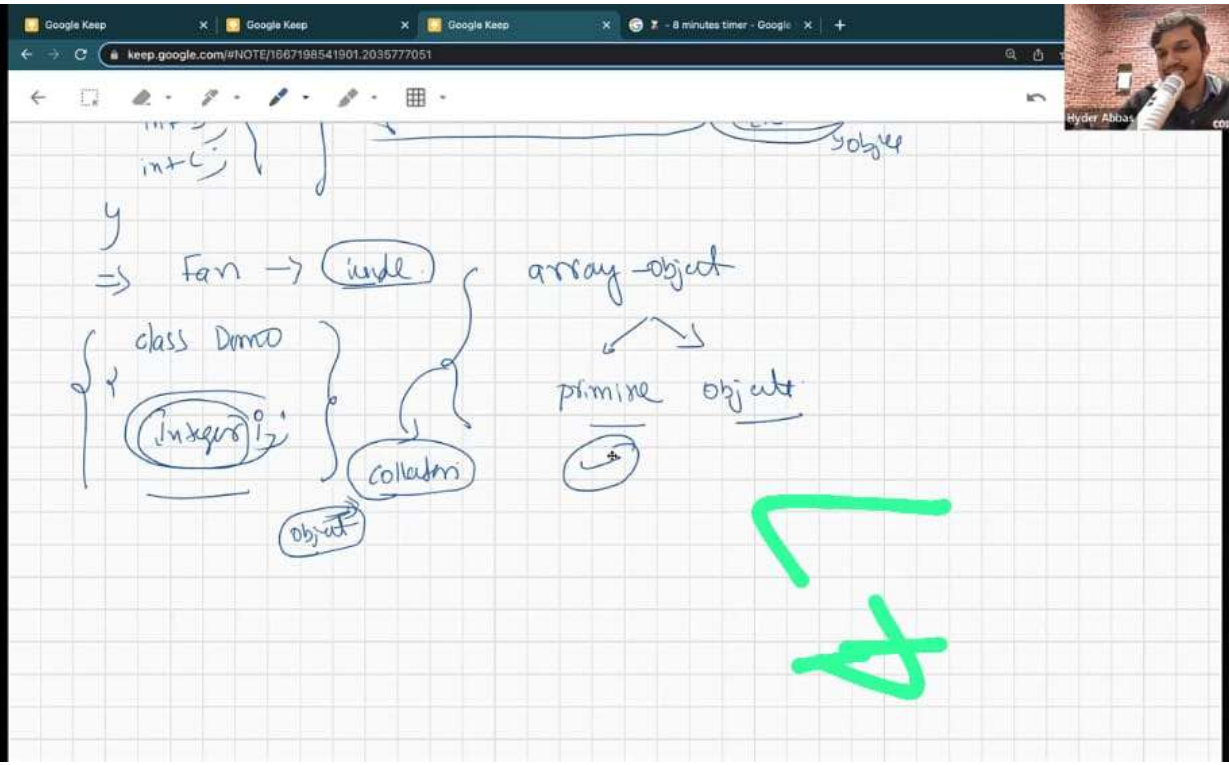
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
=>
set → 6pm
for loach =>
=>
for() → for-each } => ⊗
=> arrays }.
int[] x;
x = new int[4];
print [3]x;
print x[];
42

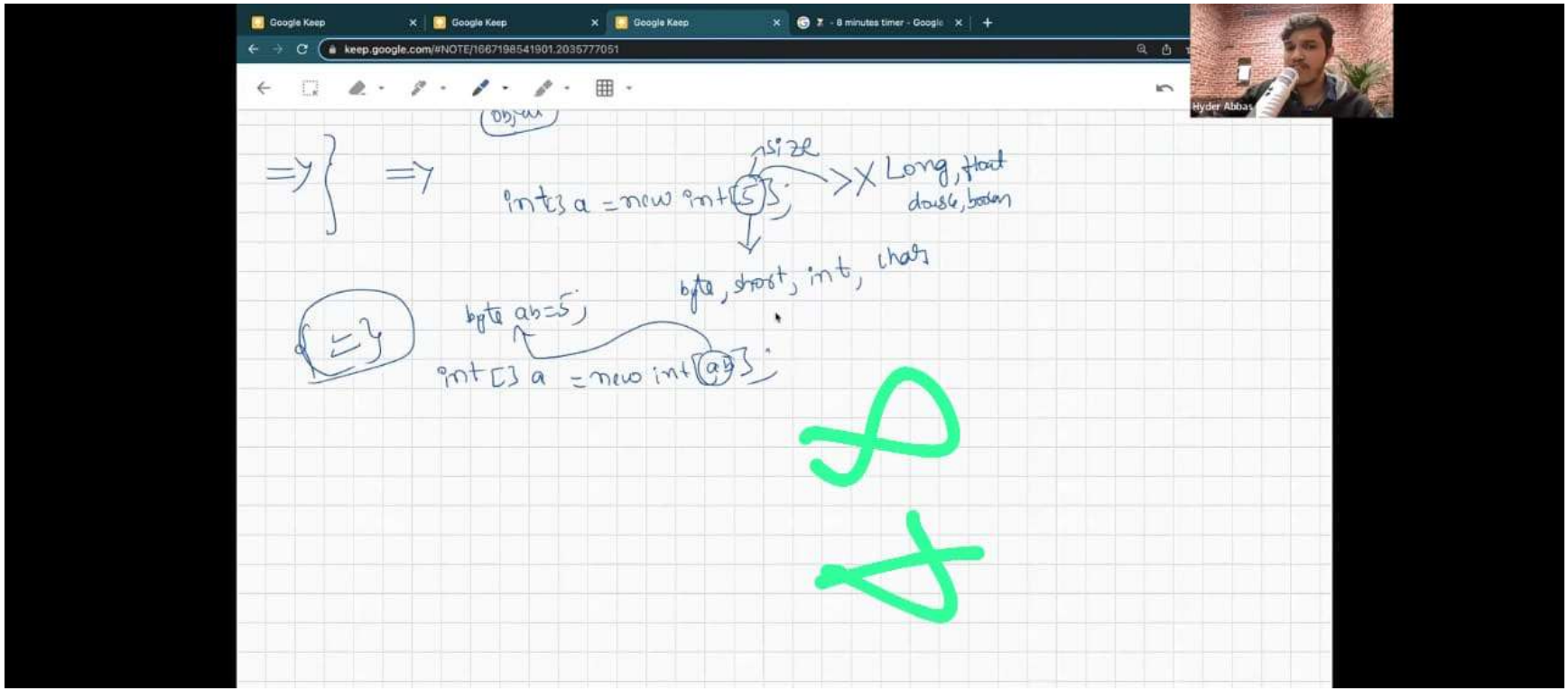

Google Keep
Google Keep
- 8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
int [][] x;
int x[][];
int[] ar;
int[6] ar; X not valid
int[][] ar;
int ar[][];
int [][]ar;
int [3ar[];
Hyder Abbas

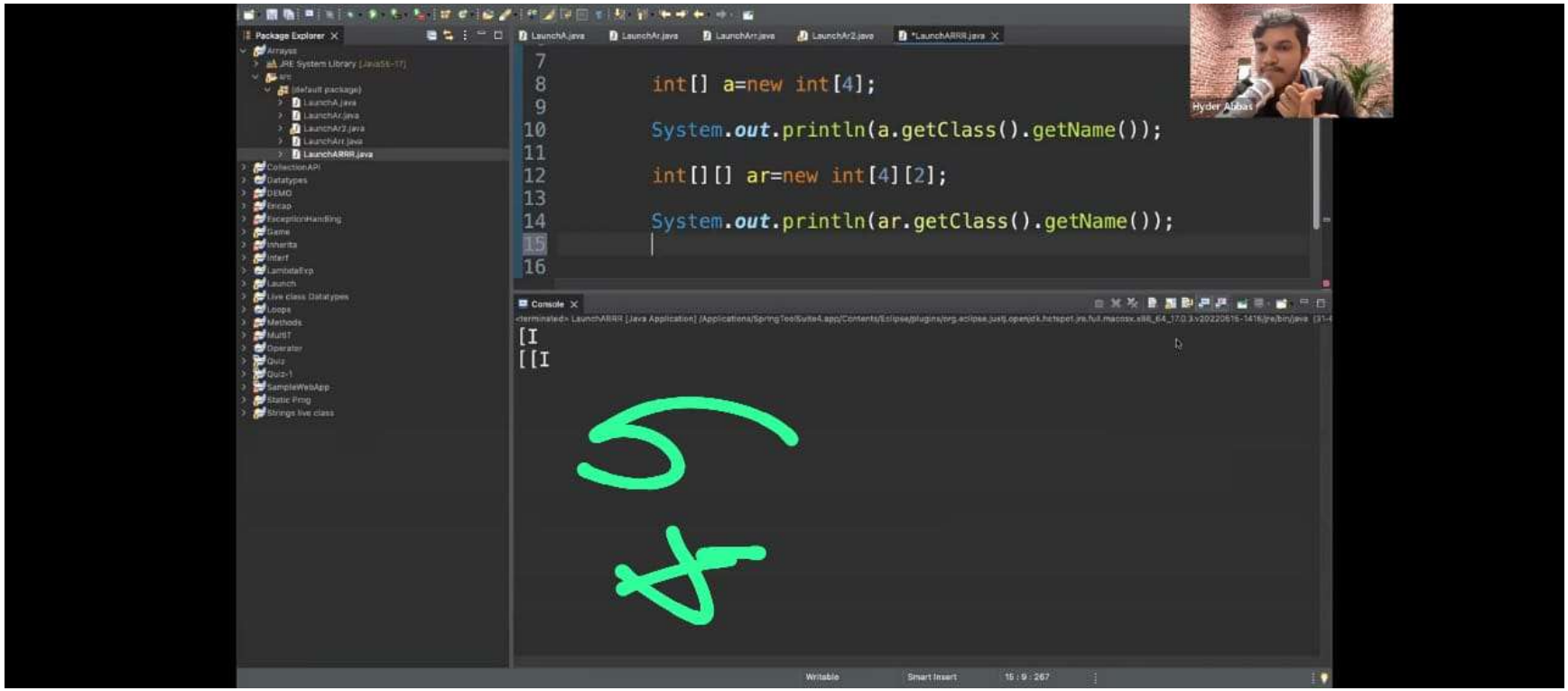

Package Explorer
LaunchA.java
LaunchAr.java
*LaunchArr.java
*LaunchAr2.java
Hyder Abbas
public class LaunchAr2 {
public static void main(String[] args) {
// TODO Auto-generated method stub
int[][] a;
int [][]b;
int c[][];
int []ar[];
int[] ab,cd;
ab=new int[4];
cd=new int[5];
int m,n,o;
m=10;
n=20;
o=40;
}
}
The value of the local variable ab is not used
Writable
Smart Insert
14 : 23 [46]

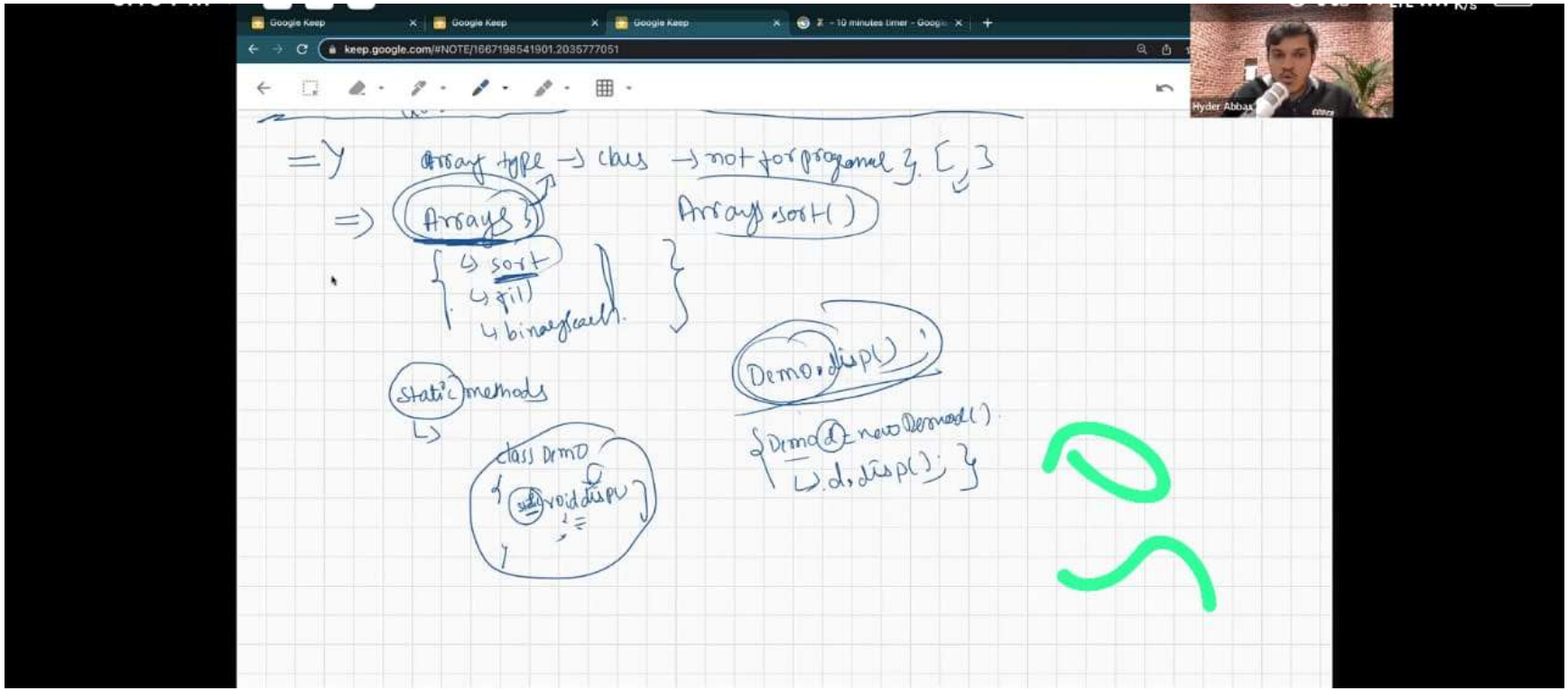

Package Explorer
LaunchA.java
LaunchAr.java
*LaunchArr.java
*LaunchAr2.java
int [][]b;
int c[][];
int []ar[];
int[] ab,cd;
ab=new int[4];
cd=new int[5];
int m,n,o;
m=10;
n=20;
o=40;
int [][] xx,yy;//xx=2D yy=2d
int [] []x[],y;// x=3d y=2d
int[][] xy[],yz;//xy 3d , yz 2d
int [][]aa, bb[]; // aa= 2d bb=3d
//int []arrr, []brr; CE
int []aaa, bbb[][];
}
Writable
Smart Insert
29 : 32 : 422
Hyder Abbas
CODER

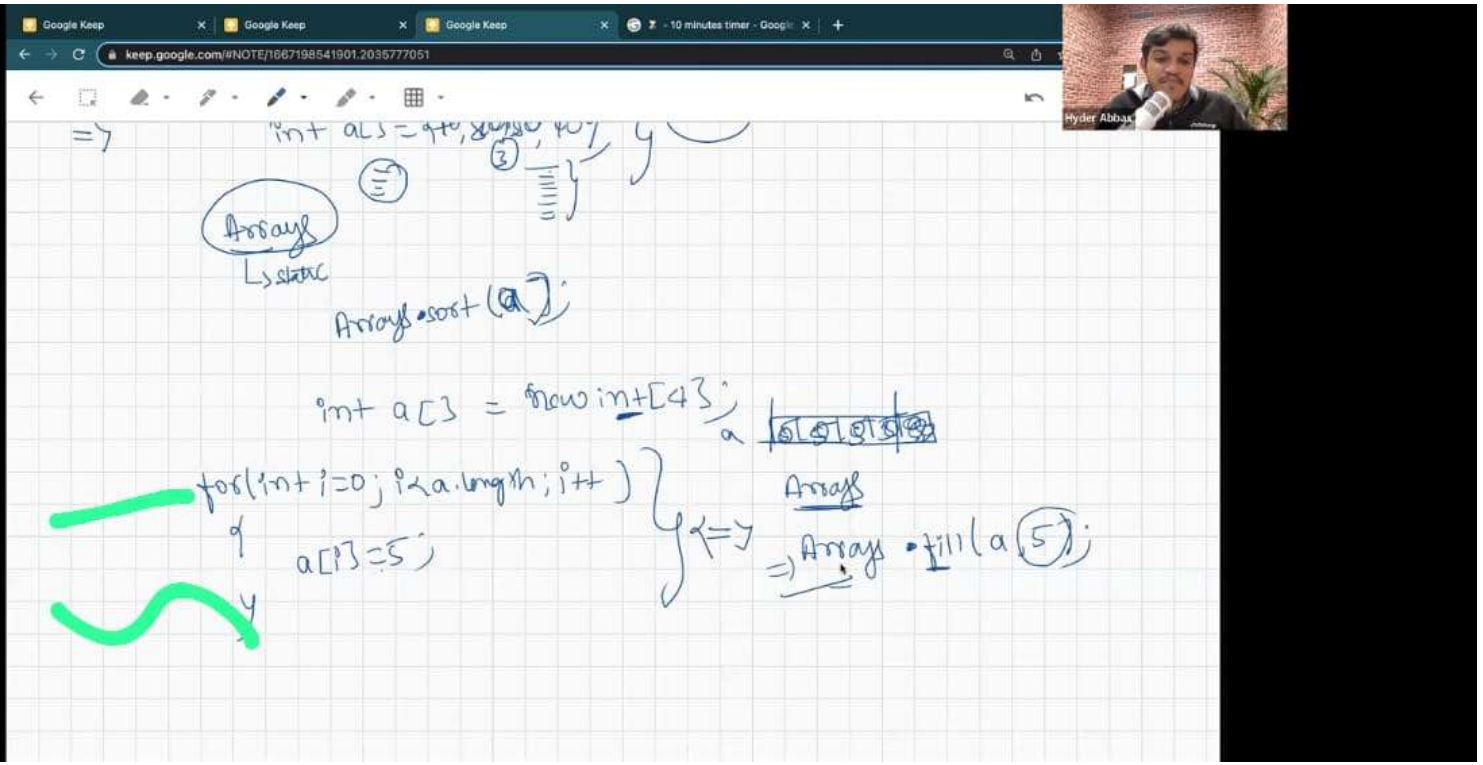

Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
CODER
=> Treated as Object
int[] ar = new int[4];
ar → 10 20 30 40
Objects
a[0]=10;
a[1]=20;
a[2]=30;
class Demo
{
int a;
int b;
int c;
}
Demo d = new Demo();
d
Object

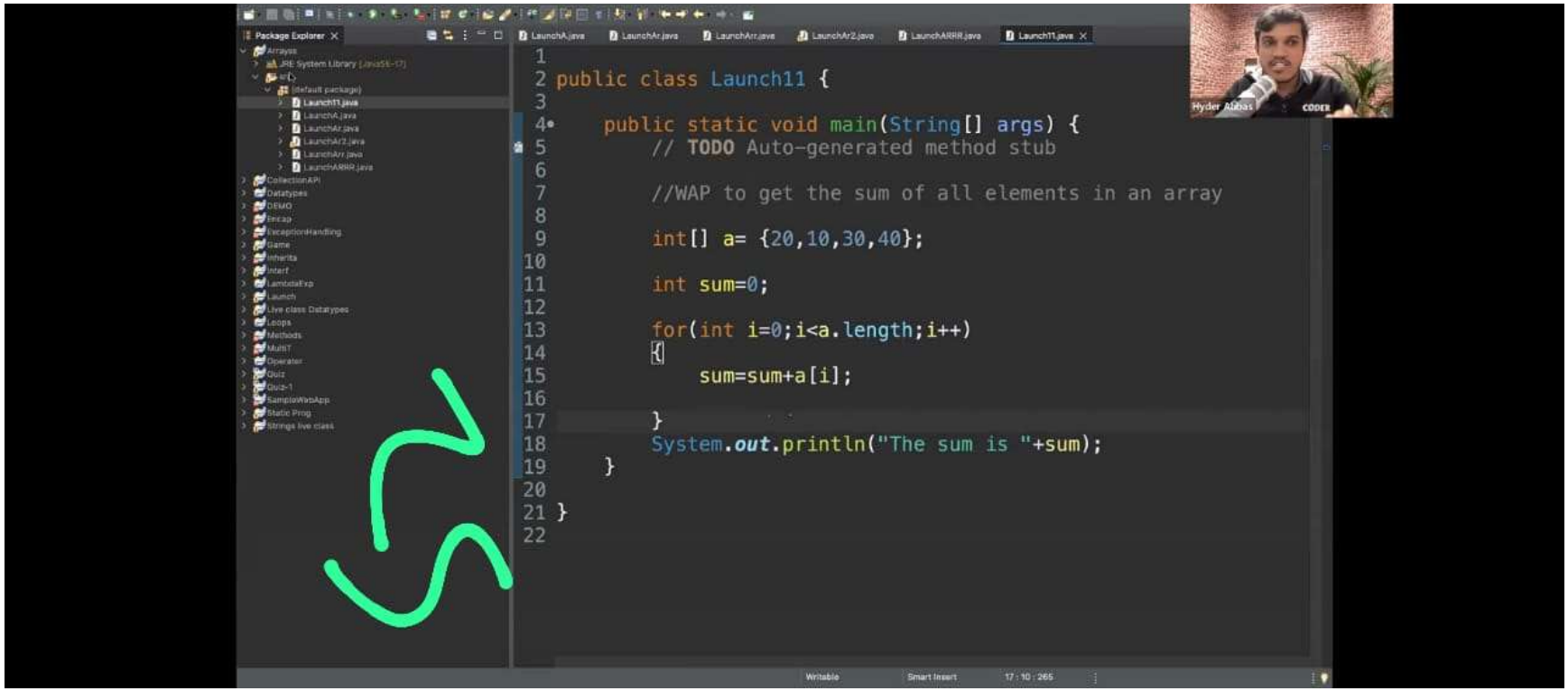

Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
int i;
y
=> Fan -> inde
class Demo
integer i;
collection
object
array object
primive object
Hyder Abbas
CODER

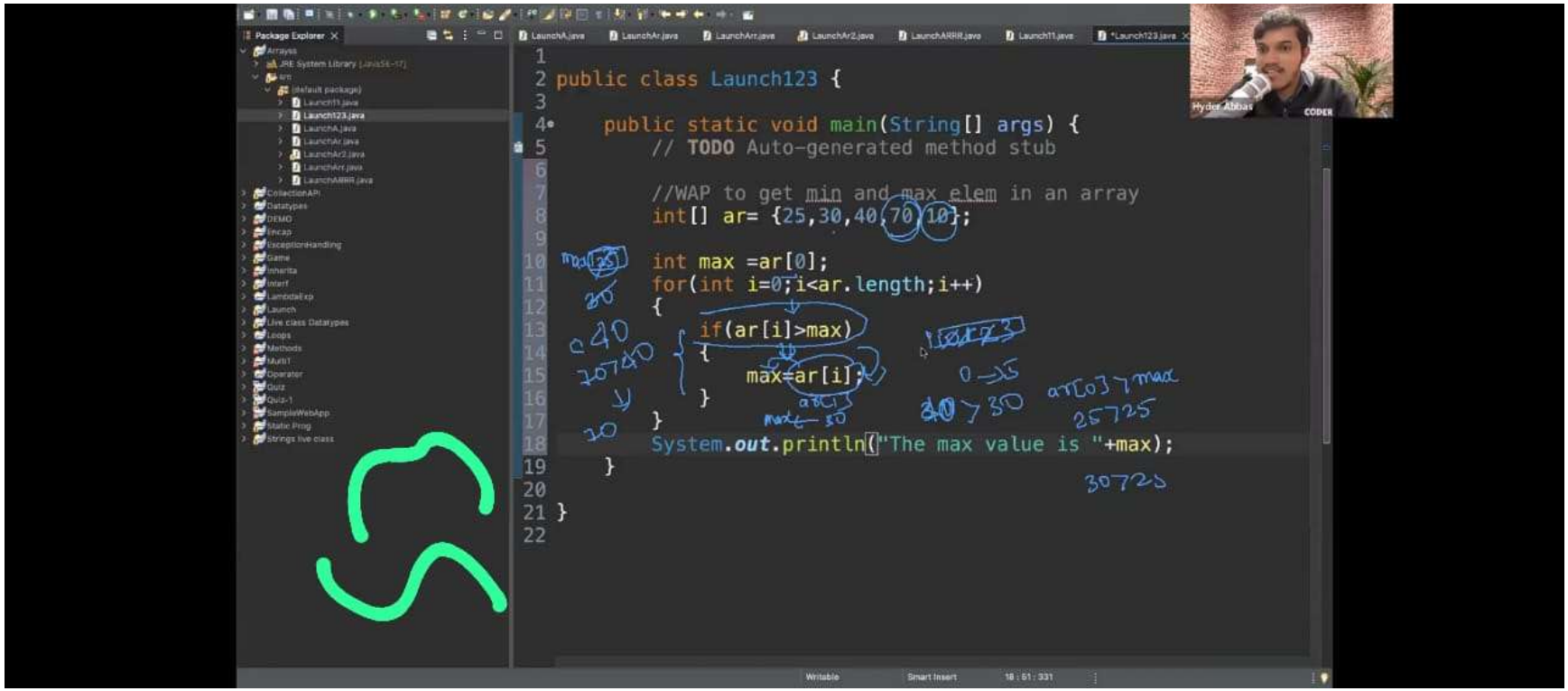

Google Keep
Google Keep
Google Keep
8 minutes timer - Google
keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
size
int[] a = new int[5];
X Long, float
double, boolean
byte, short, int, char
byte ab=5;
int[] a = new int[ab];

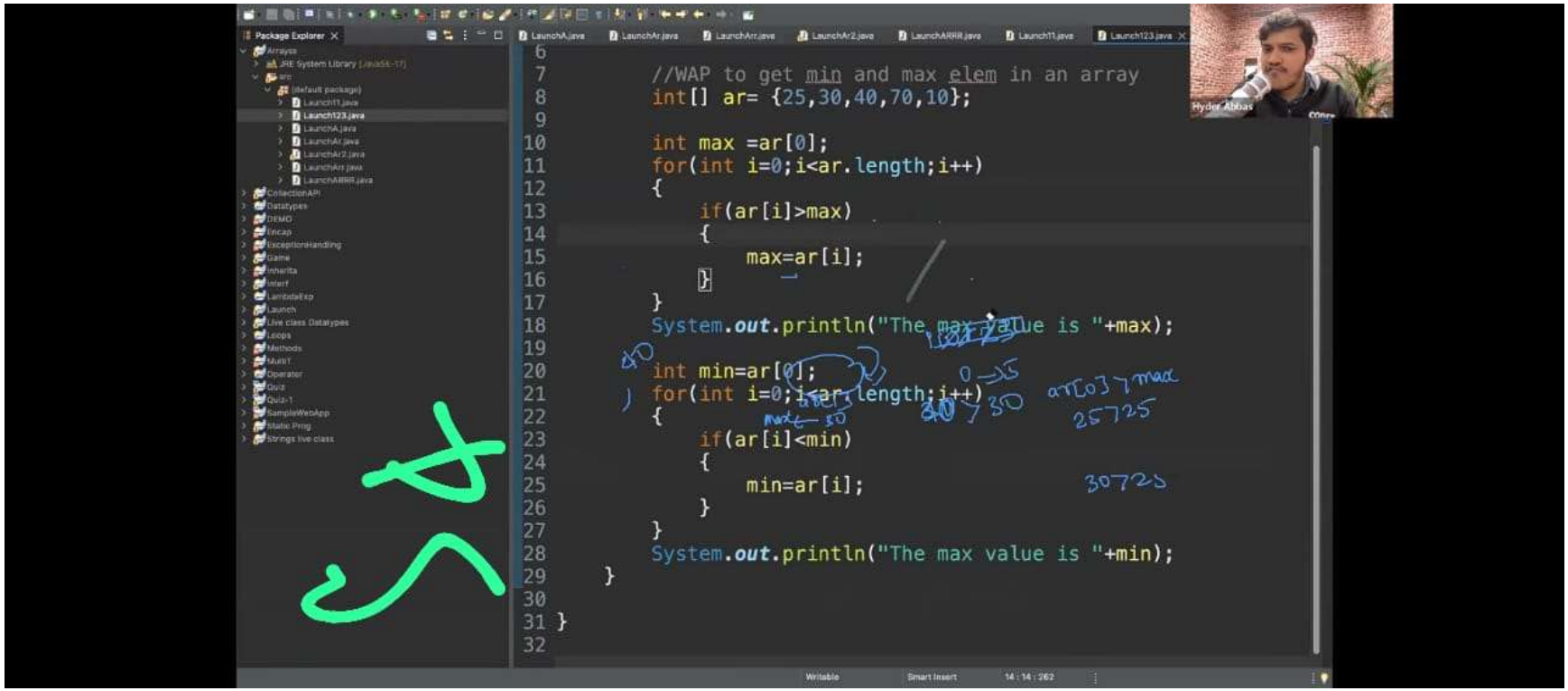

Package Explorer
LaunchA.java
LaunchAr.java
LaunchArr.java
LaunchAr2.java
*LaunchARRR.java
int[] a=new int[4];
System.out.println(a.getClass().getName());
int[][] ar=new int[4][2];
System.out.println(ar.getClass().getName());
Console
[I
[[I
Hyder Abbas
Writable
Smart Insert
15 : 9 : 267

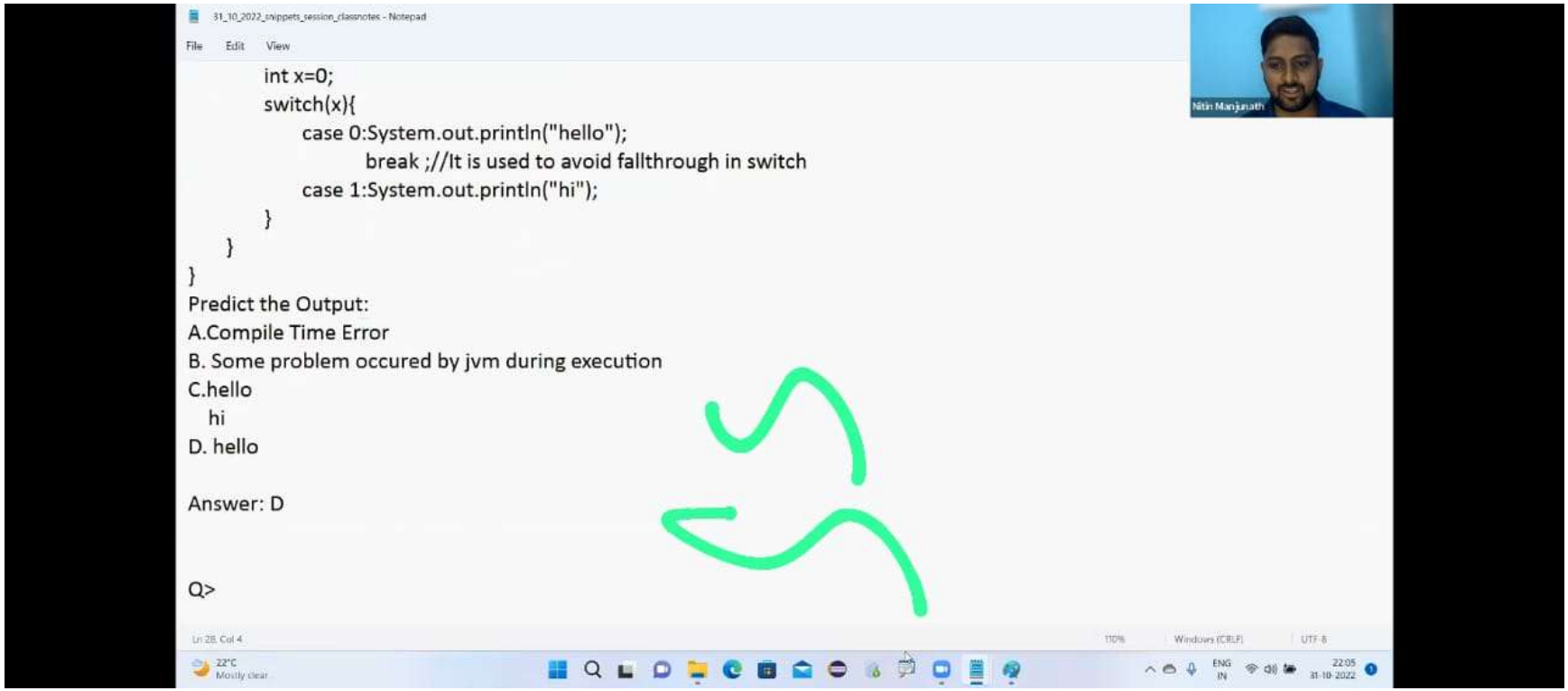

keep.google.com/#NOTE/1667198541901.2035777051
Hyder Abbas
=)
Array type → class → not for programs {, [,]
=>
Arrays
↳ sort
↳ fill
↳ binarySearch
Arrays.sort()
static methods
class DemO
void disp()
Demo.disp()
Demo d = new Demo()
d.disp();

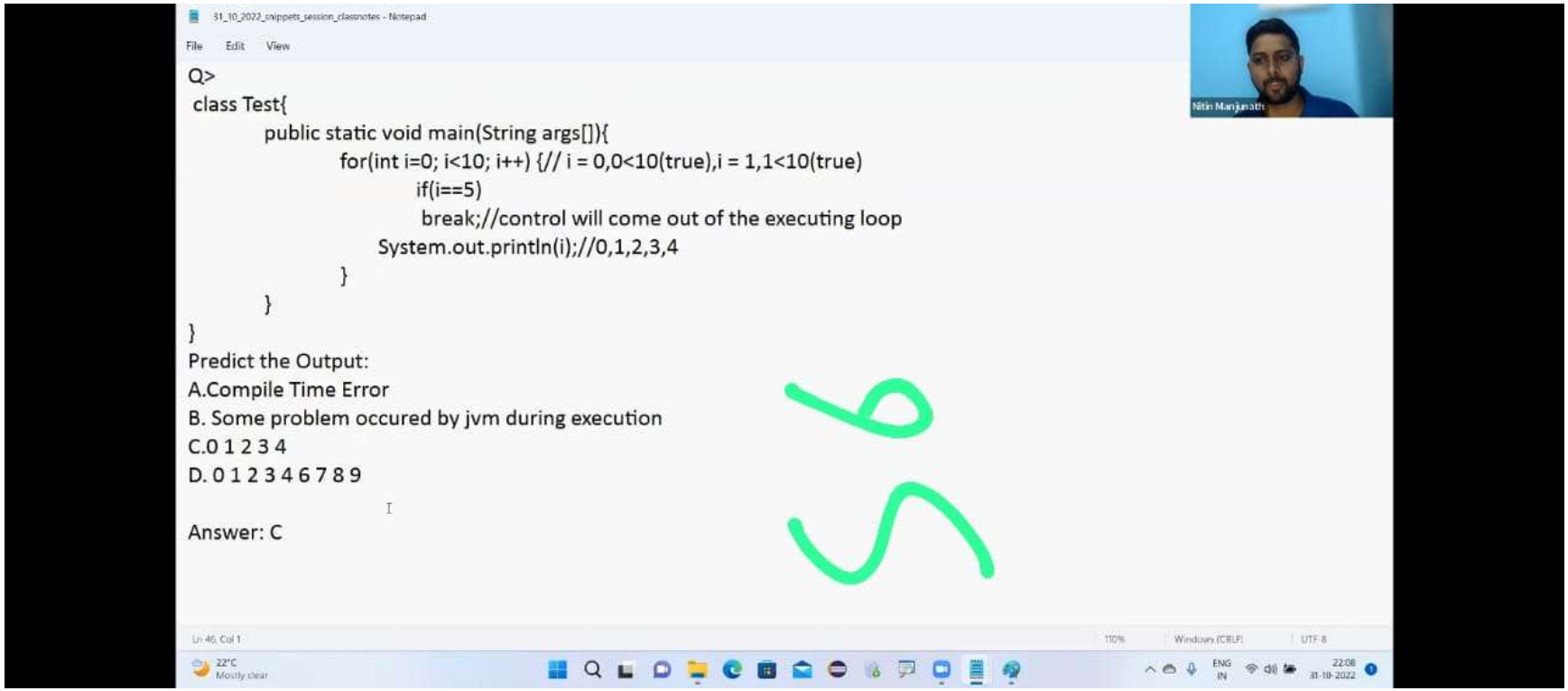

Google Keep
Google Keep
Google Keep
keep.google.com/#NOTE/1867198541901.2035777051
Hyder Abbas
Arrays
Arrays.sort(a);
int a[] = new int[4];
for(int i=0; i<a.length; i++)
a[i]=5;
Arrays
Arrays.fill(a,5);

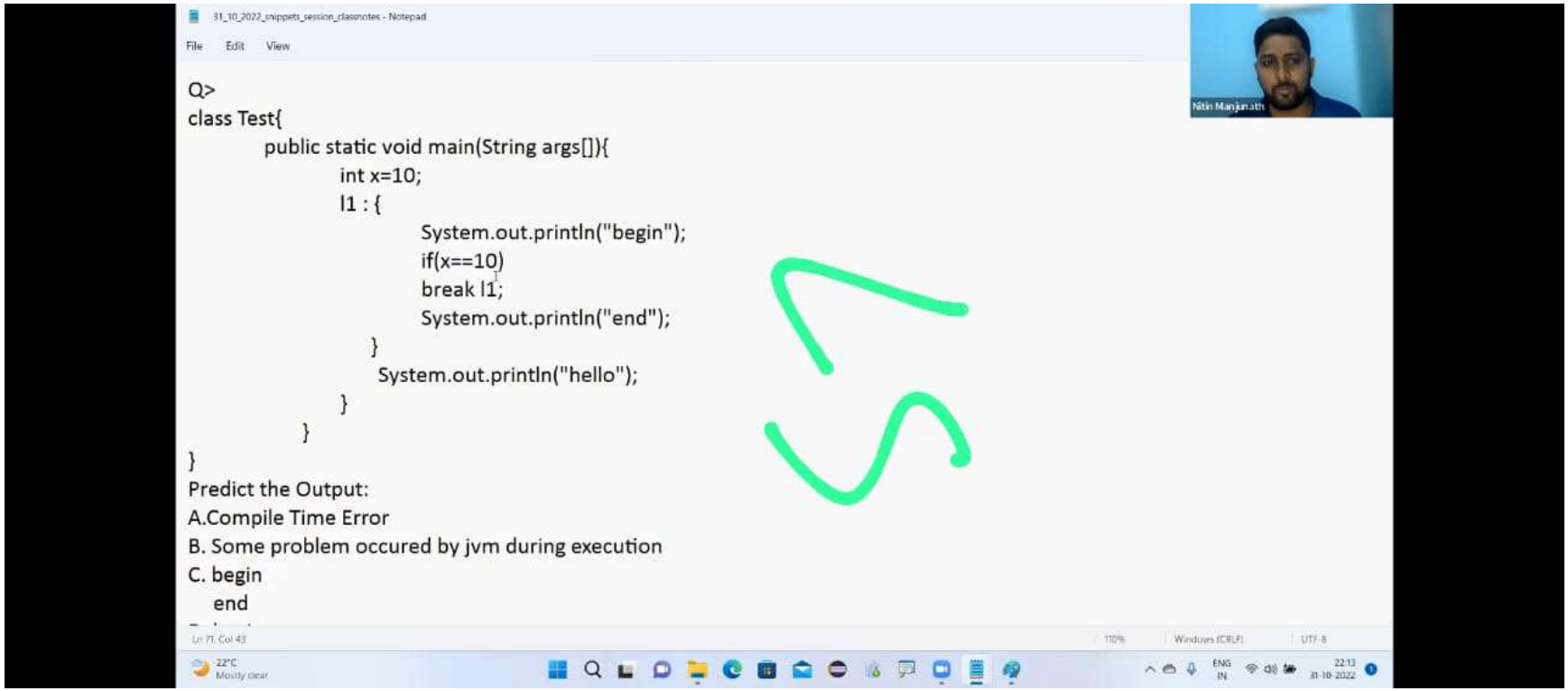

Package Explorer
LaunchA.java
LaunchAr.java
LaunchArr.java
LaunchAr2.java
LaunchARRR.java
Launch11.java
Hyder Abbas
CODER
1 public class Launch11 {
2
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5
6 //WAP to get the sum of all elements in an array
7
8 int[] a= {20,10,30,40};
9
10 int sum=0;
11
12 for(int i=0;i<a.length;i++)
13 {
14 sum=sum+a[i];
15
16 }
17 System.out.println("The sum is "+sum);
18 }
19
20 }
21
Writable
Smart Insert
17 : 10 : 265

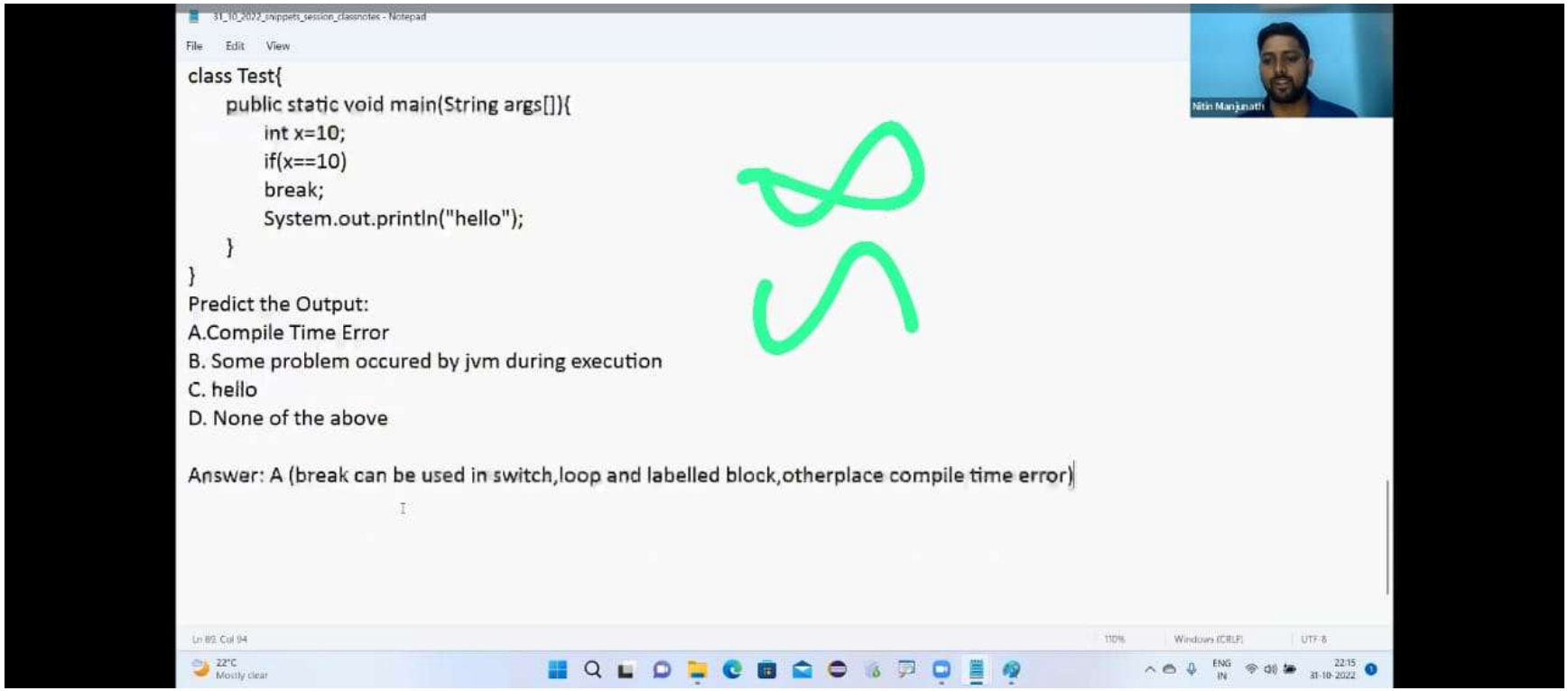

Package Explorer
LaunchA.java
LaunchAr.java
LaunchArr.java
LaunchAr2.java
LaunchARRR.java
Launch11.java
*Launch123.java
Launch11.java
Launch123.java
LaunchA.java
LaunchAr.java
LaunchAr2.java
LaunchArr.java
LaunchARRR.java
1 public class Launch123 {
2
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5
6 //WAP to get min and max elem in an array
7 int[] ar= {25,30,40,70,10};
8
9 int max =ar[0];
10 for(int i=0;i<ar.length;i++)
11 {
12 if(ar[i]>max)
13 {
14 max=ar[i];
15 }
16 }
17 System.out.println("The max value is "+max);
18 }
19
20 }
21
22
Writable
Smart Insert
18 : 61 : 331
Hyder Abbas
CODER

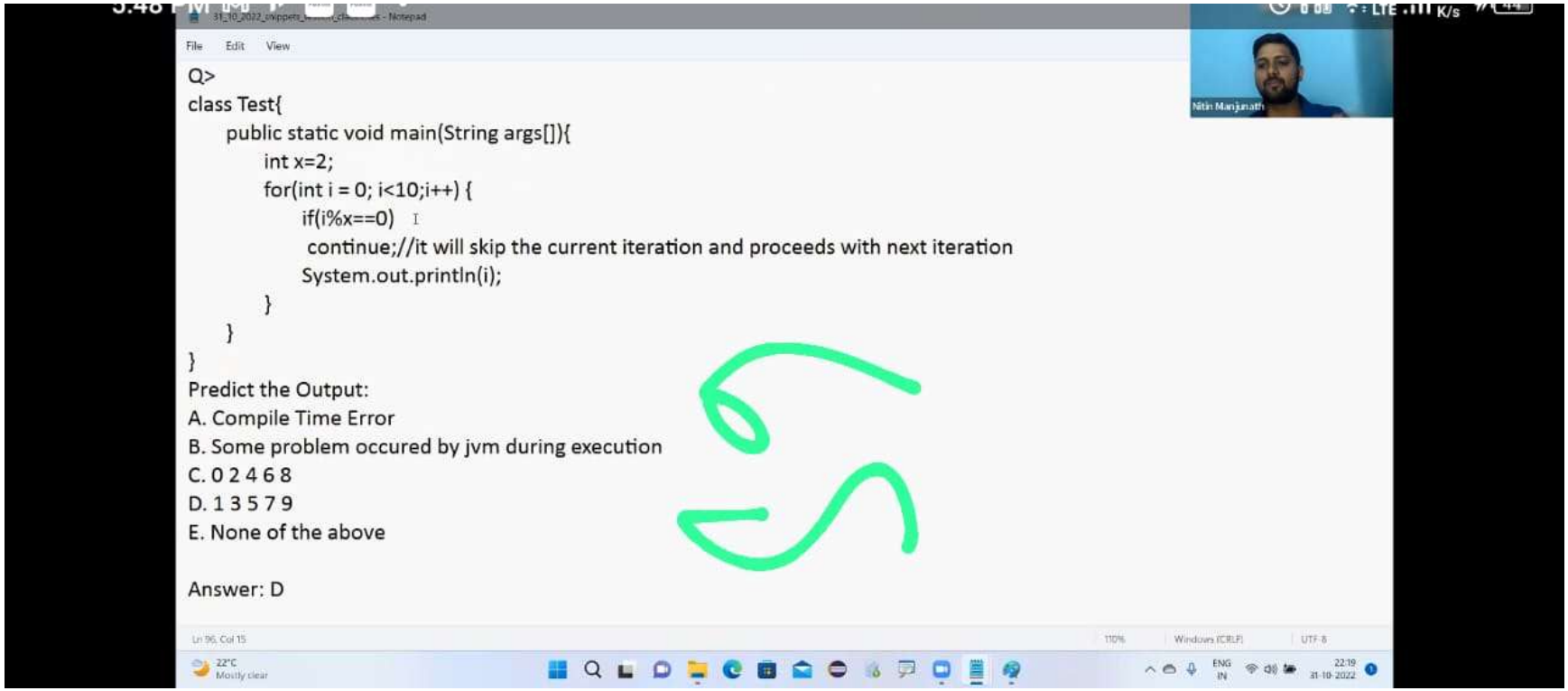

Package Explorer
LaunchA.java
LaunchAr.java
LaunchArr.java
LaunchAr2.java
LaunchARRR.java
Launch11.java
Launch123.java
Hyder Abbas
//WAP to get min and max elem in an array
int[] ar= {25,30,40,70,10};
int max =ar[0];
for(int i=0;i<ar.length;i++)
{
if(ar[i]>max)
{
max=ar[i];
}
}
System.out.println("The max value is "+max);
int min=ar[0];
for(int i=0;i<ar.length;i++)
{
if(ar[i]<min)
{
min=ar[i];
}
}
System.out.println("The max value is "+min);
}
}
Writable
Smart Insert
14 : 14 : 362

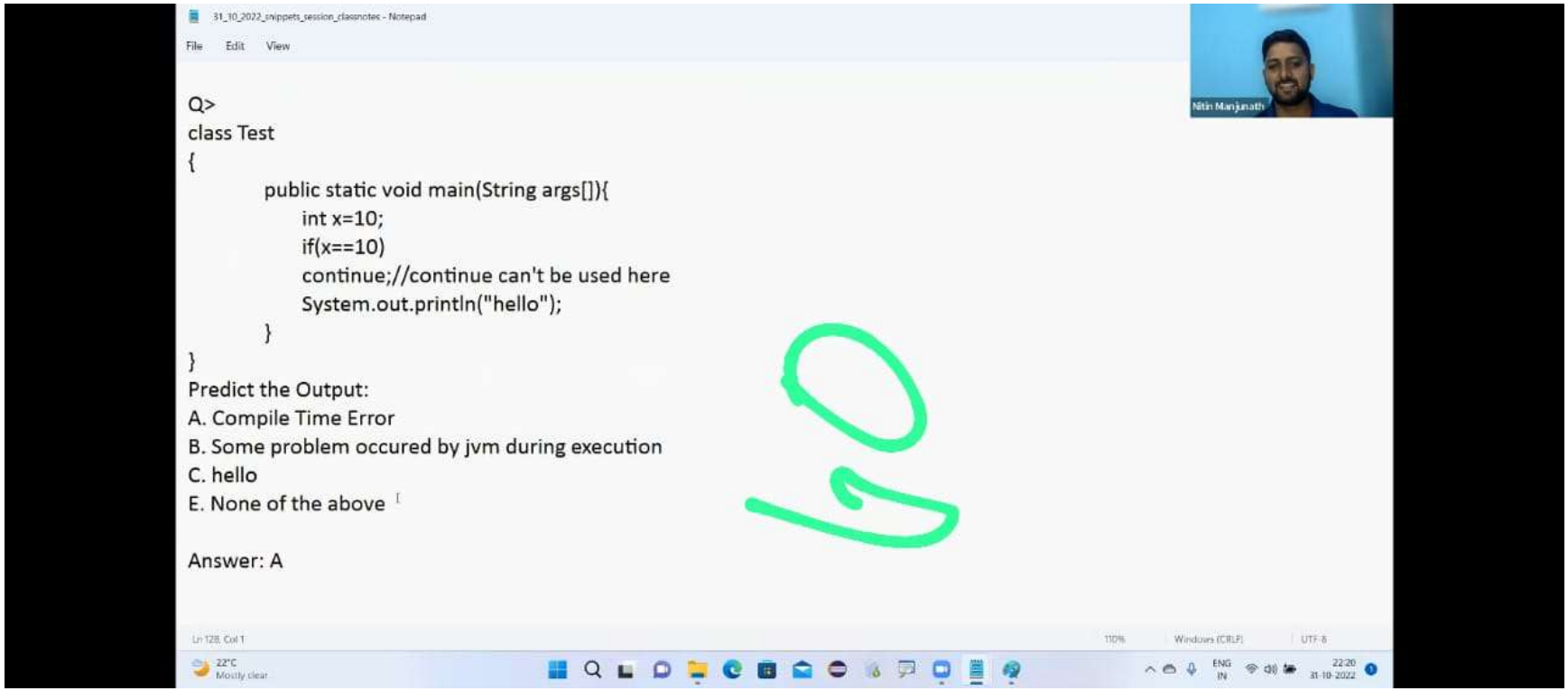

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
int x=0;
switch(x){
case 0:System.out.println("hello");
break ;//It is used to avoid fallthrough in switch
case 1:System.out.println("hi");
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C.hello
hi
D. hello
Answer: D
Q>
Nitin Manjunath
Ln 28, Col 4
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:05
31-10-2022

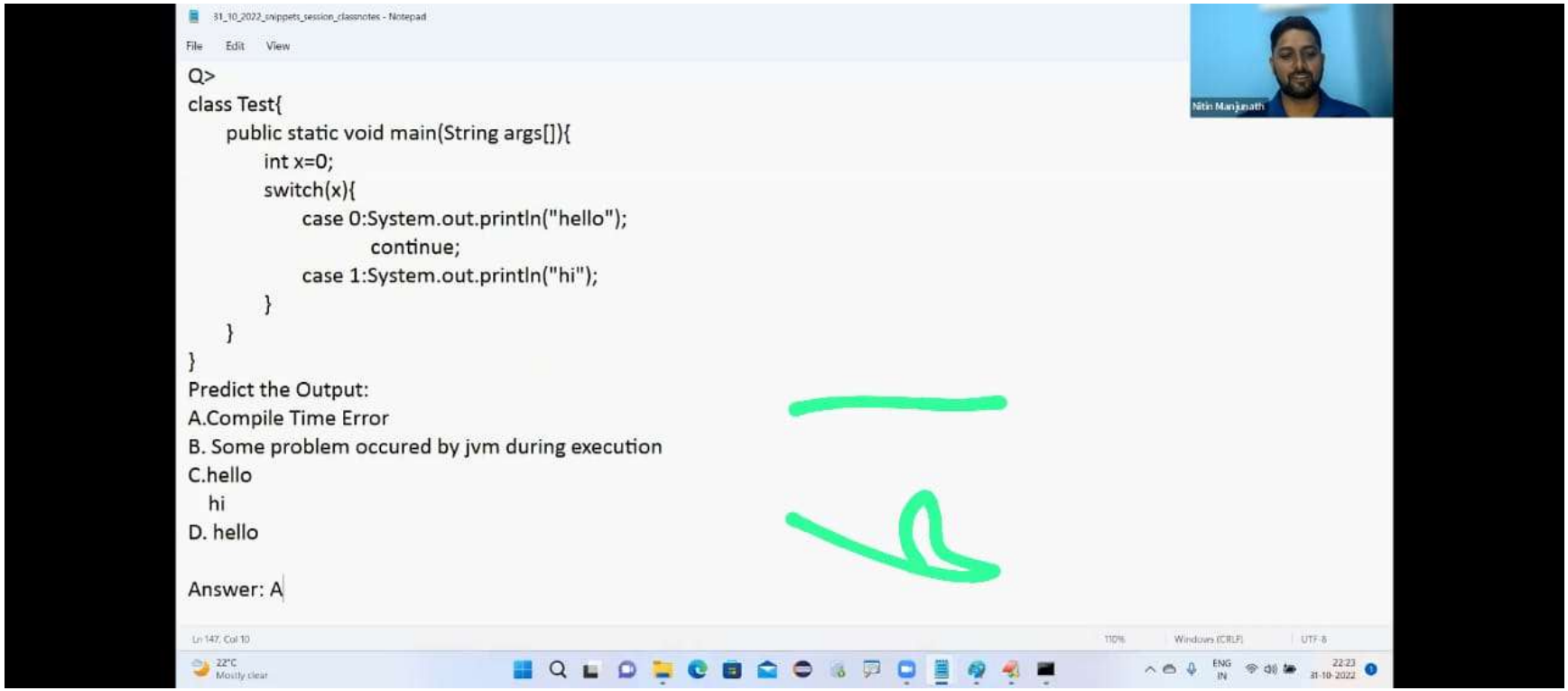

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Q>
class Test{
public static void main(String args[]){
for(int i=0; i<10; i++) {// i = 0,0<10(true),i = 1,1<10(true)
if(i==5)
break;//control will come out of the executing loop
System.out.println(i);//0,1,2,3,4
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C.0 1 2 3 4
D. 0 1 2 3 4 6 7 8 9
Answer: C
Nitin Manjunath
Ln 46, Col 1
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:08
31-10-2022

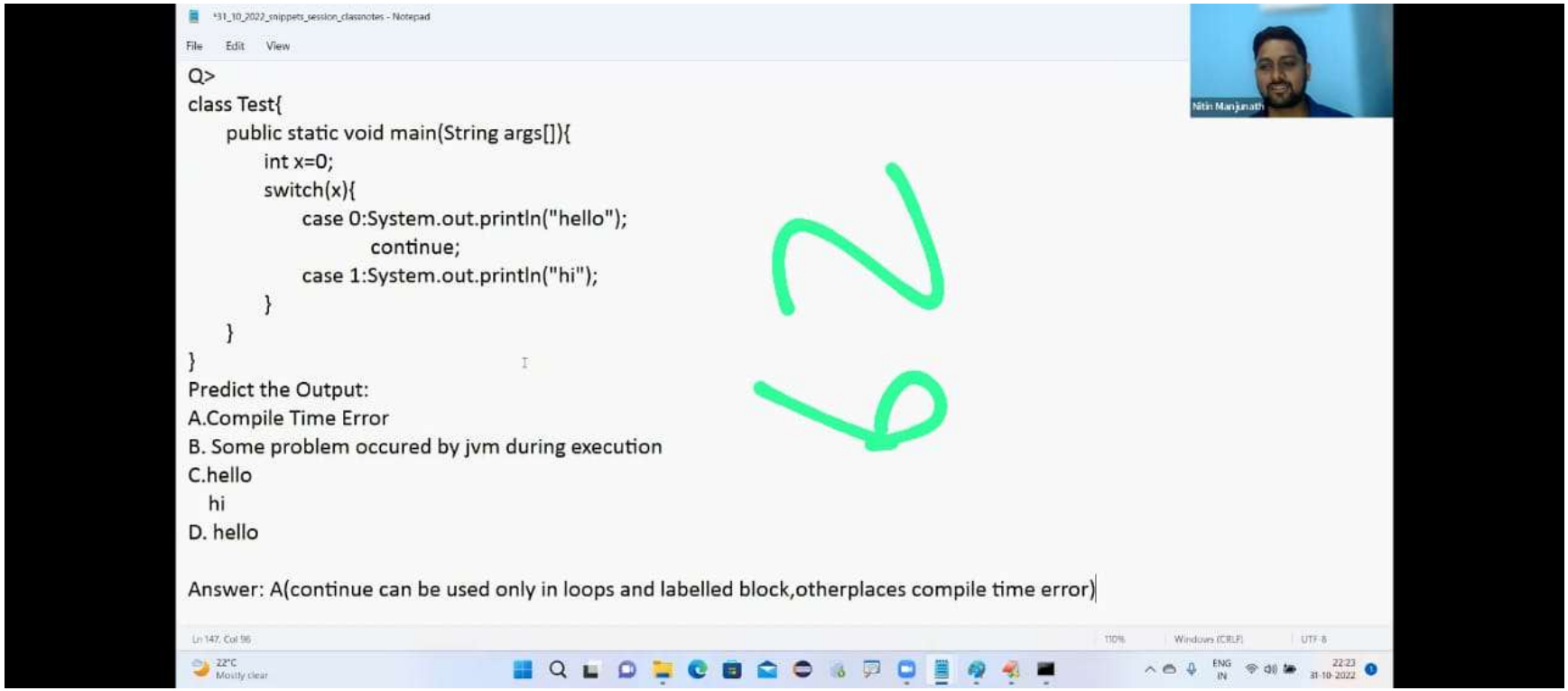

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Q>
class Test{
public static void main(String args[]){
int x=10;
l1 : {
System.out.println("begin");
if(x==10)
break l1;
System.out.println("end");
}
System.out.println("hello");
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C. begin
end
Nitin Manjunath
Ln 71, Col 43
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:13
31-10-2022


31_10_2022_snippets_session_classnotes - Notepad
File Edit View
class Test{
public static void main(String args[]){
int x=10;
if(x==10)
break;
System.out.println("hello");
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C. hello
D. None of the above
Answer: A (break can be used in switch,loop and labelled block,otherplace compile time error)
Nitin Manjunath
Ln 89, Col 94
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:15
31-10-2022


File Edit View
Q>
class Test{
public static void main(String args[]){
int x=2;
for(int i = 0; i<10;i++) {
if(i%x==0)
continue;//it will skip the current iteration and proceeds with next iteration
System.out.println(i);
}
}
}
Predict the Output:
A. Compile Time Error
B. Some problem occured by jvm during execution
C. 0 2 4 6 8
D. 1 3 5 7 9
E. None of the above
Answer: D
Nitin Manjunath


31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Nitin Manjunath
Q>
class Test
{
public static void main(String args[]){
int x=10;
if(x==10)
continue;//continue can't be used here
System.out.println("hello");
}
}
Predict the Output:
A. Compile Time Error
B. Some problem occured by jvm during execution
C. hello
E. None of the above
Answer: A
Ln 128, Col 1
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:20
31-10-2022


31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Q>
class Test{
public static void main(String args[]){
int x=0;
switch(x){
case 0:System.out.println("hello");
continue;
case 1:System.out.println("hi");
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C.hello
hi
D. hello
Answer: A
Nitin Manjunath
Ln 147, Col 10
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:23
31-10-2022


*31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Q>
class Test{
public static void main(String args[]){
int x=0;
switch(x){
case 0:System.out.println("hello");
continue;
case 1:System.out.println("hi");
}
}
}
Predict the Output:
A.Compile Time Error
B. Some problem occured by jvm during execution
C.hello
hi
D. hello
Answer: A(continue can be used only in loops and labelled block,otherplaces compile time error)
62
Nitin Manjunath
Ln 147, Col 96
110%
Windows (CRLF)
UTF-8
22°C
Mostly clear
ENG
IN
22:23
31-10-2022

*31_10_2022_snippets_session_classnotes - Notepad

File Edit View

D. hello

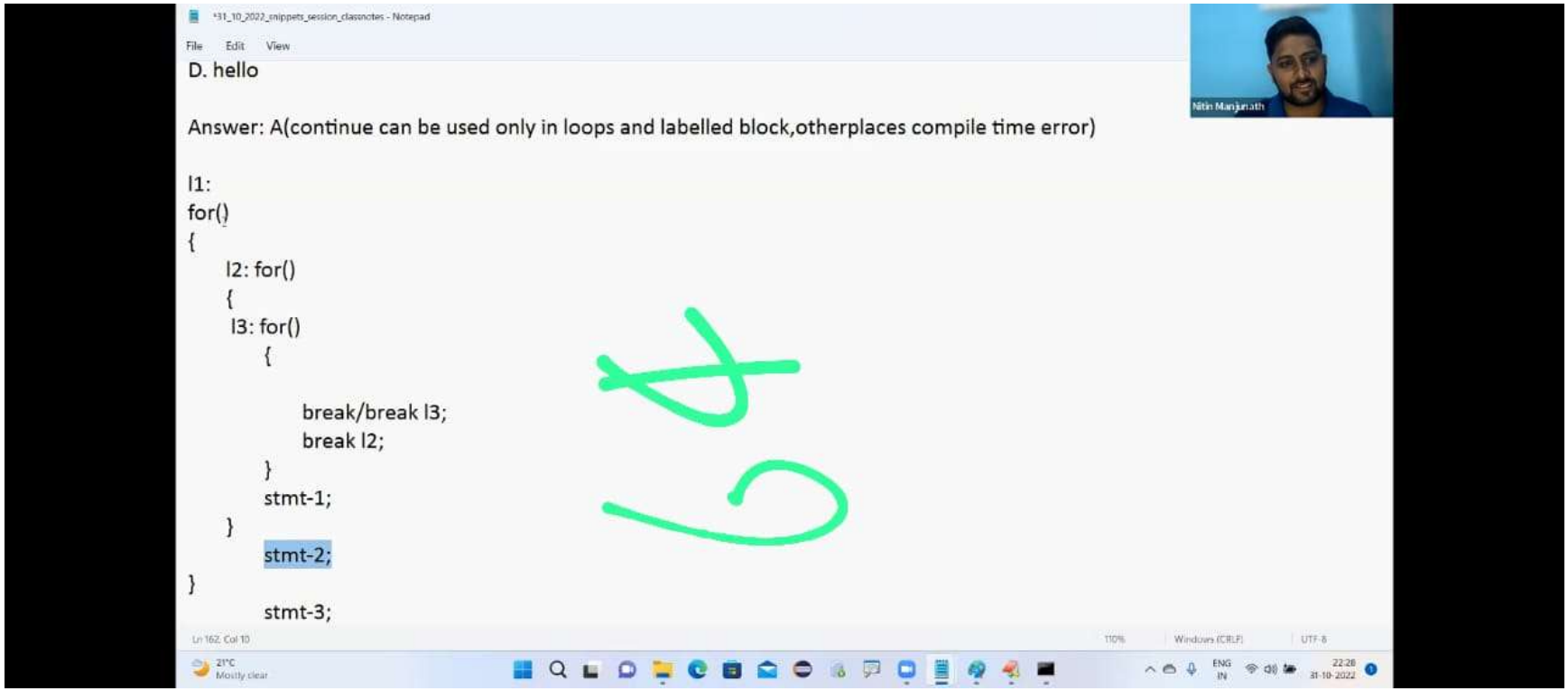
Answer: A(continue can be used only in loops and labelled block,otherplaces compile time error)

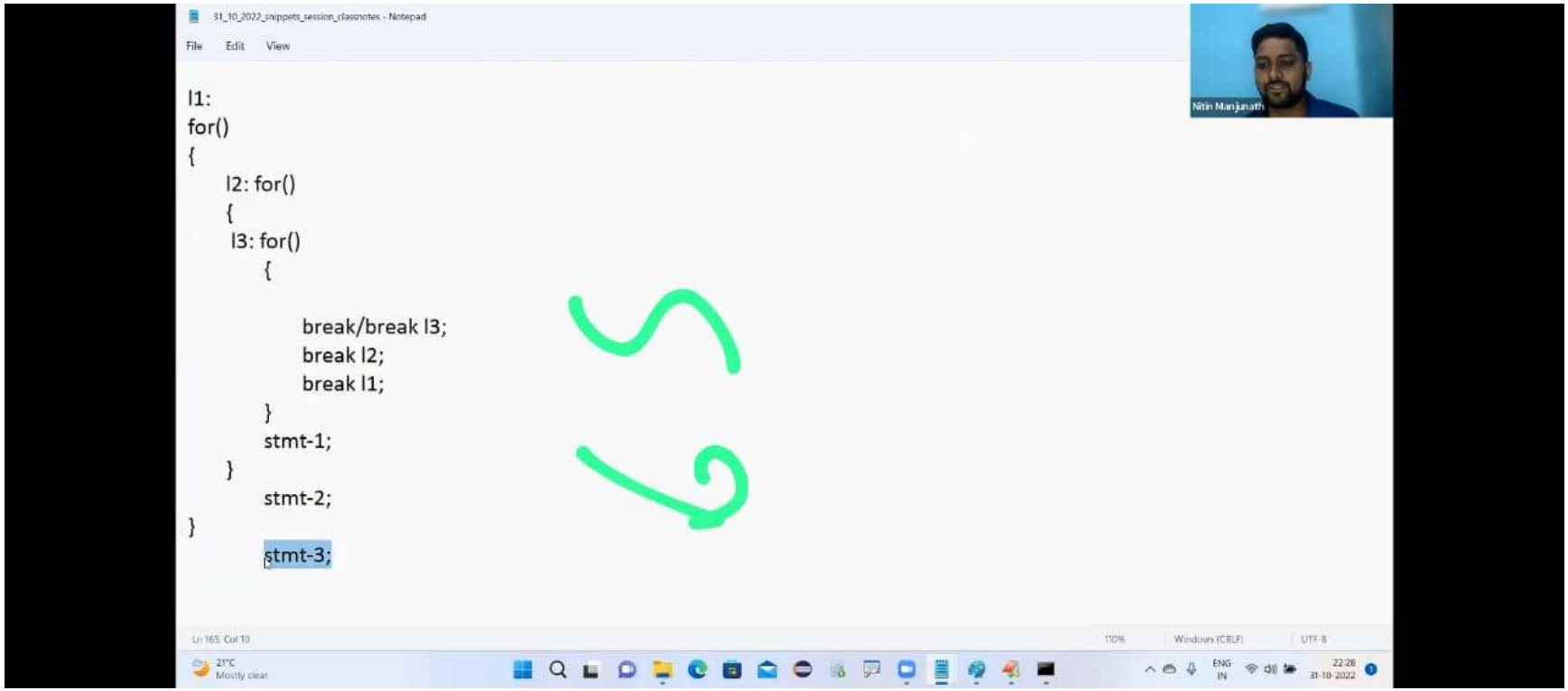
```
l1: {
    ;;;
    ;;;
    break l1;
    ;;;
    ;;;
}
```

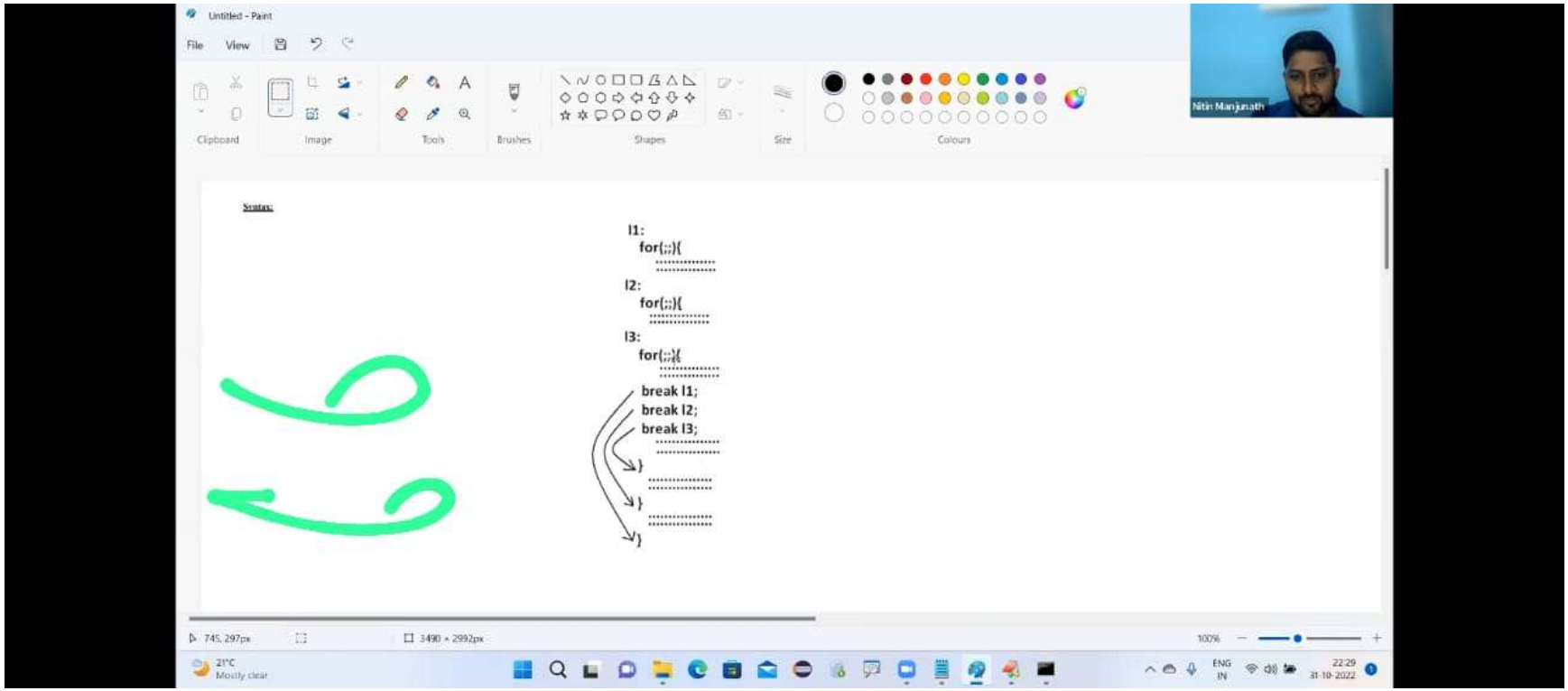
Ln 157, Col 2 110% Windows (CRLF) UTF-8

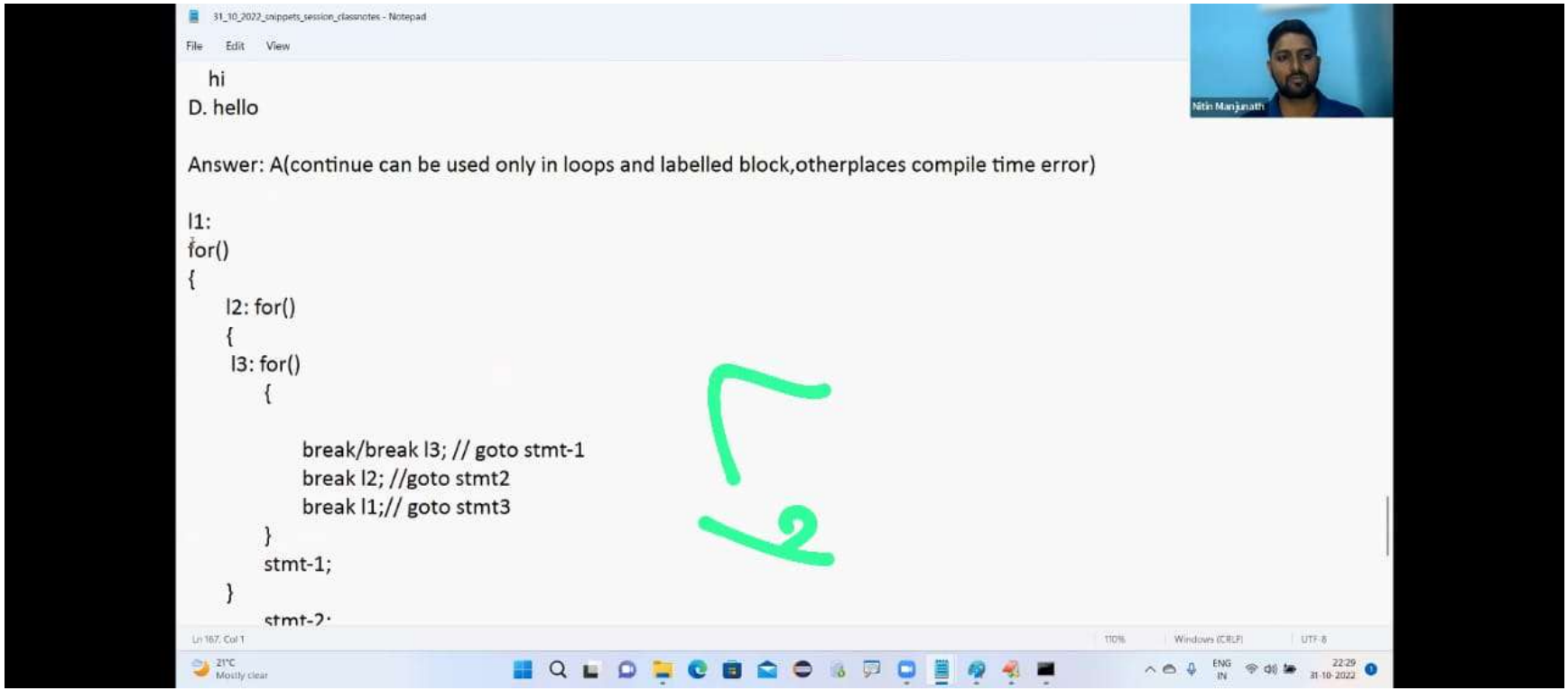
22°C Mostly clear

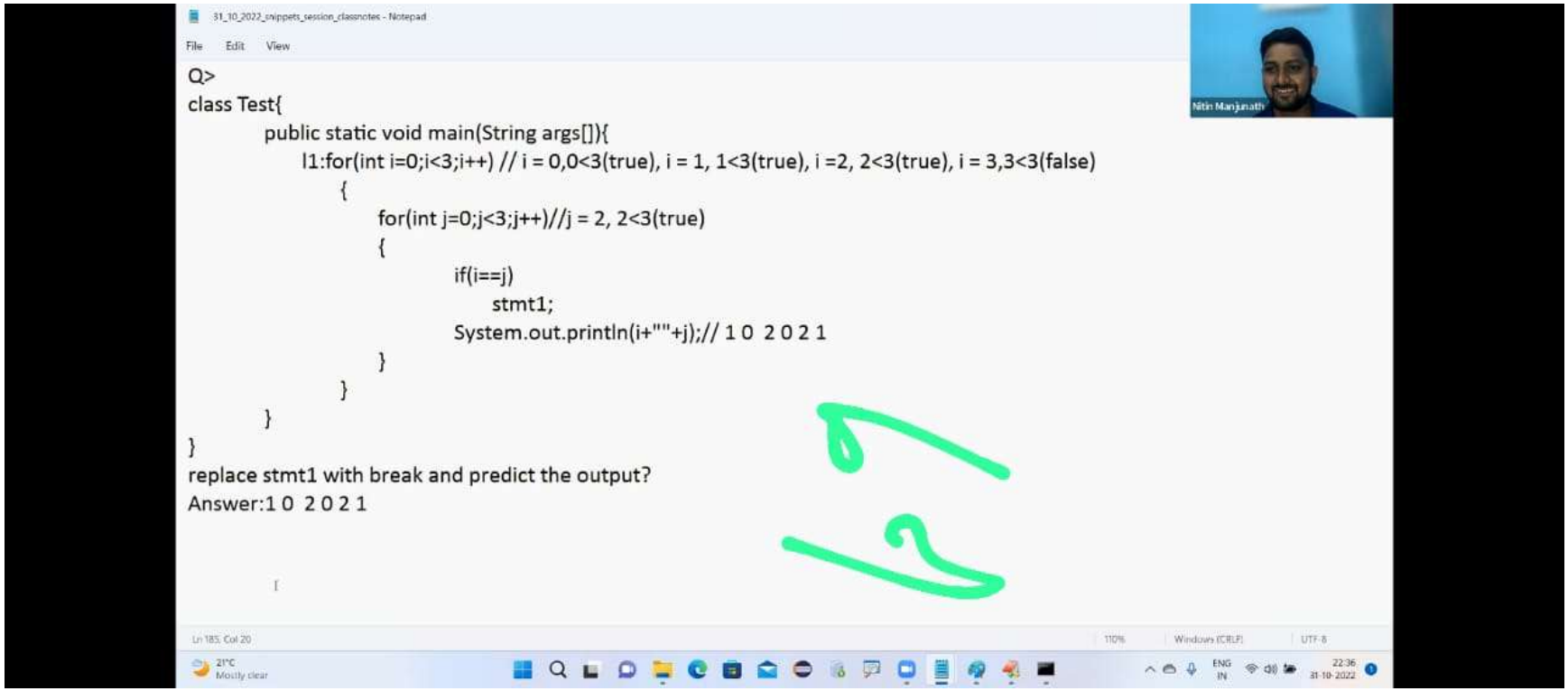
ENG IN 22:25 31-10-2022

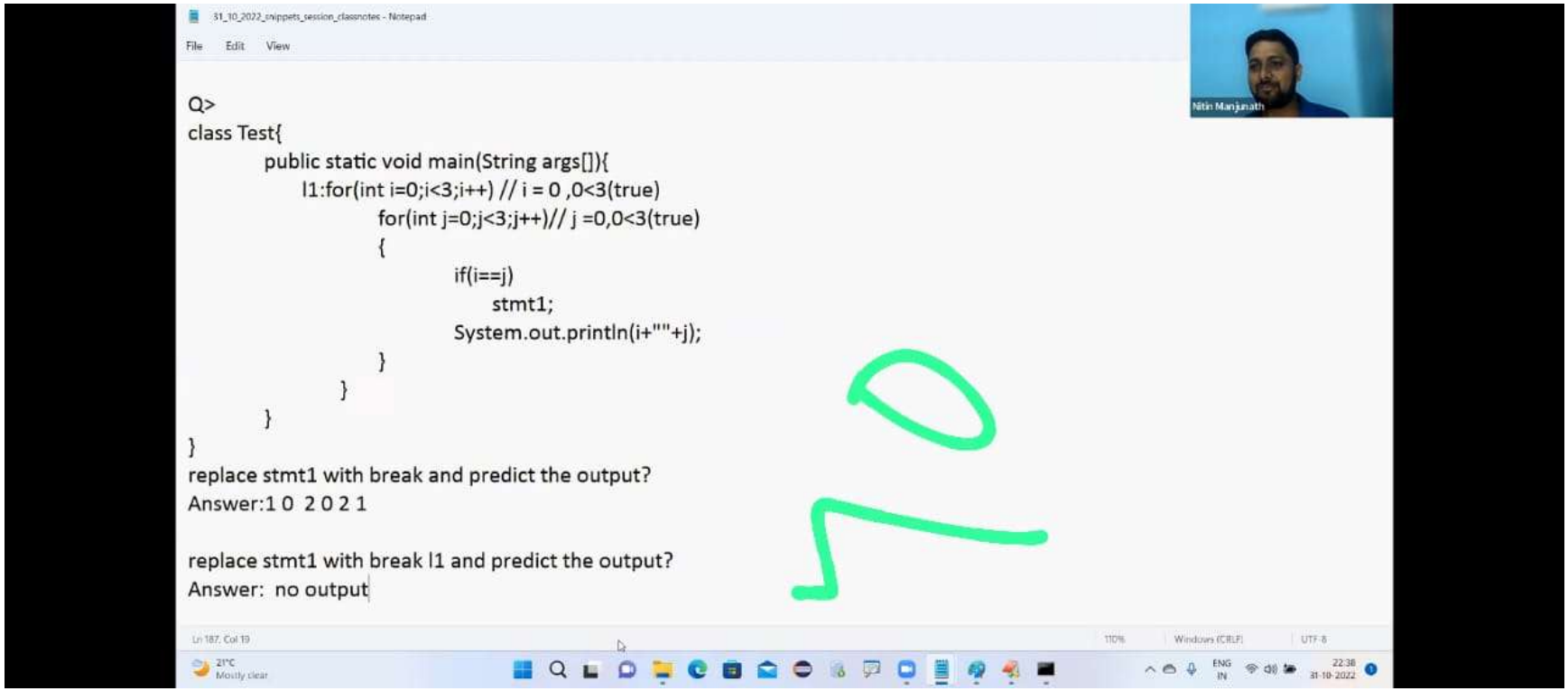

*31_10_2022_snippets_session_classnotes - Notepad
File Edit View
D. hello
Answer: A(continue can be used only in loops and labelled block,otherplaces compile time error)
l1:
for()
{
l2: for()
{
l3: for()
{
break/break l3;
break l2;
}
stmt-1;
}
stmt-2;
}
stmt-3;
Nitin Manjunath
Ln 162, Col 10
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:28
31-10-2022

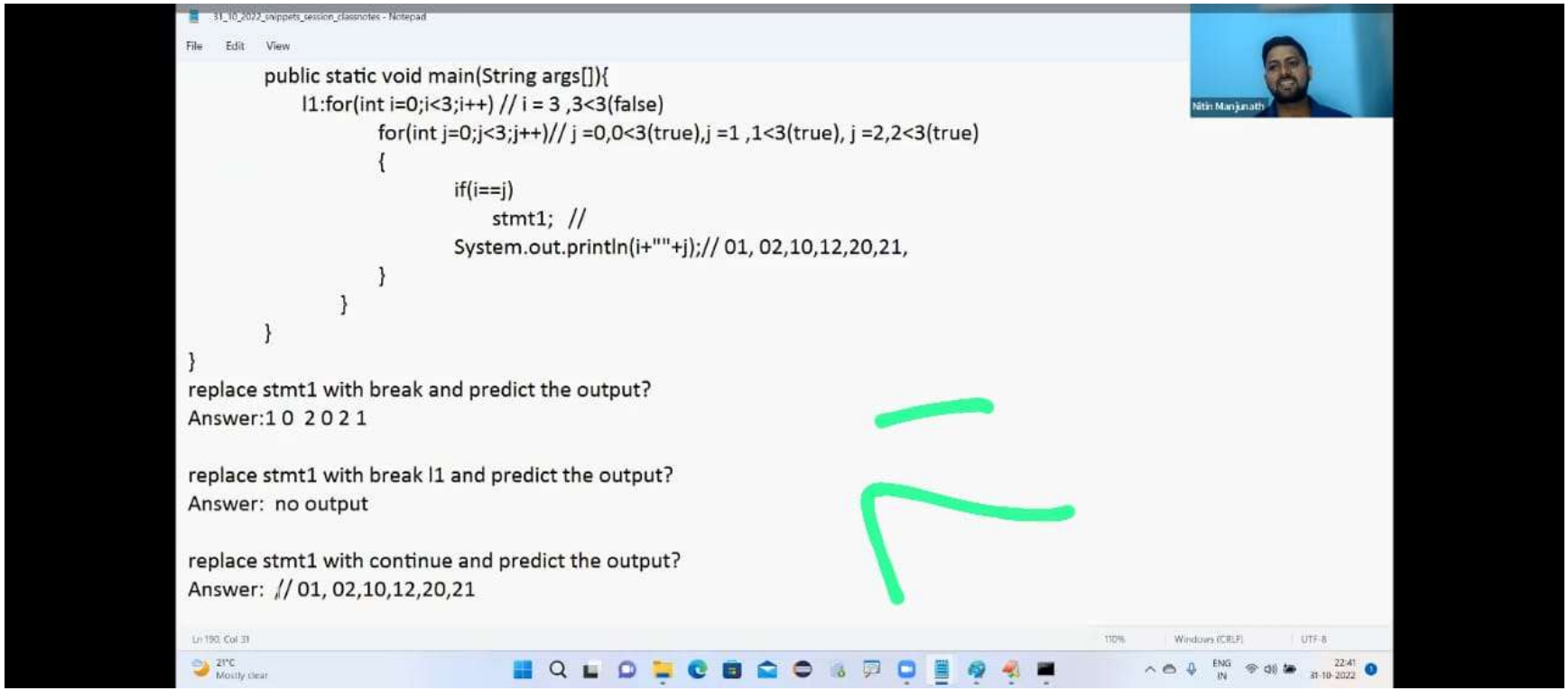

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
l1:
for()
{
l2: for()
{
l3: for()
{
break/break l3;
break l2;
break l1;
}
stmt-1;
}
stmt-2;
}
stmt-3;
Nitin Manjunath
Ln 165, Col 10
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:28
31-10-2022

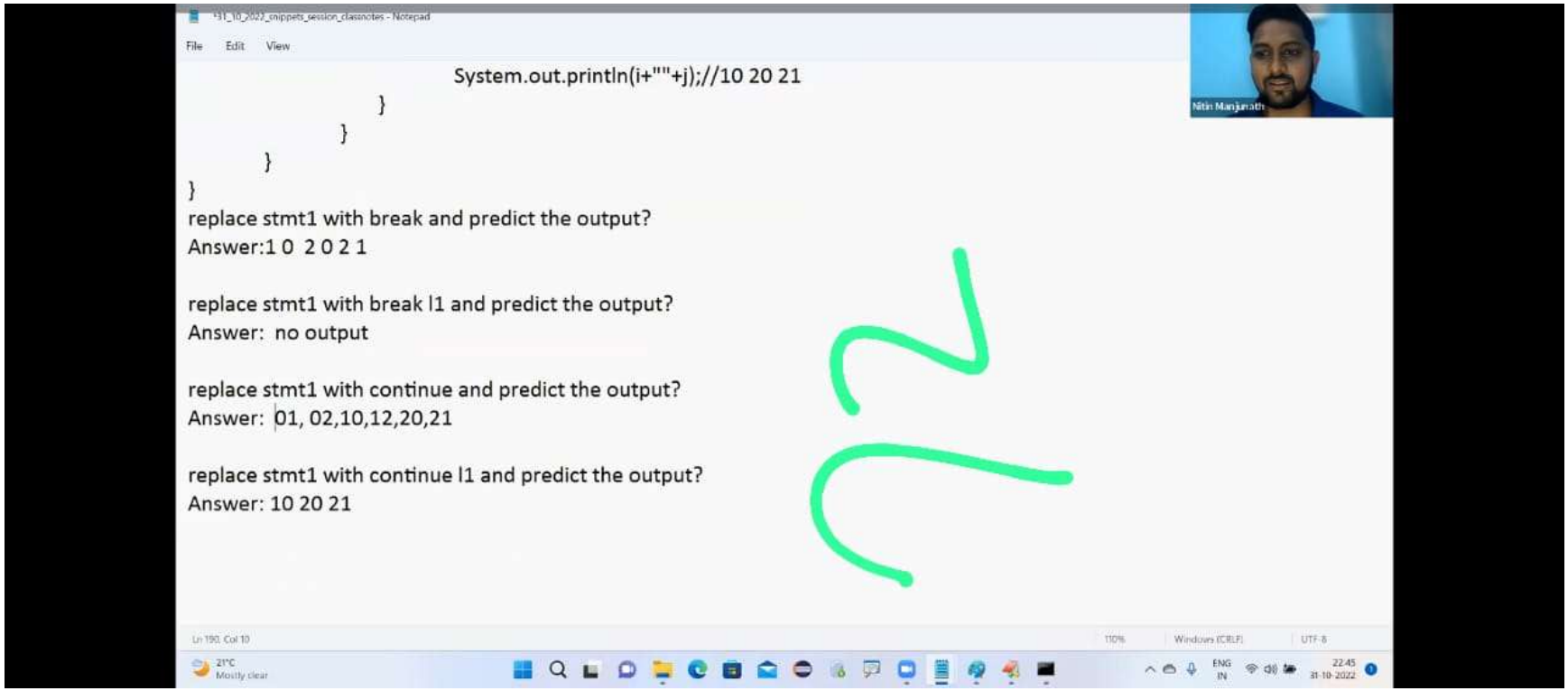

Untitled - Paint
File
View
Clipboard
Image
Tools
Brushes
Shapes
Size
Colours
Nitin Manjunath
Syntax:
l1:
for(;;){
l2:
for(;;){
l3:
for(;;){
break l1;
break l2;
break l3;
}
}
}
745, 297px
3490 × 2992px
100%
21°C
Mostly clear
ENG
IN
22:29
31-10-2022

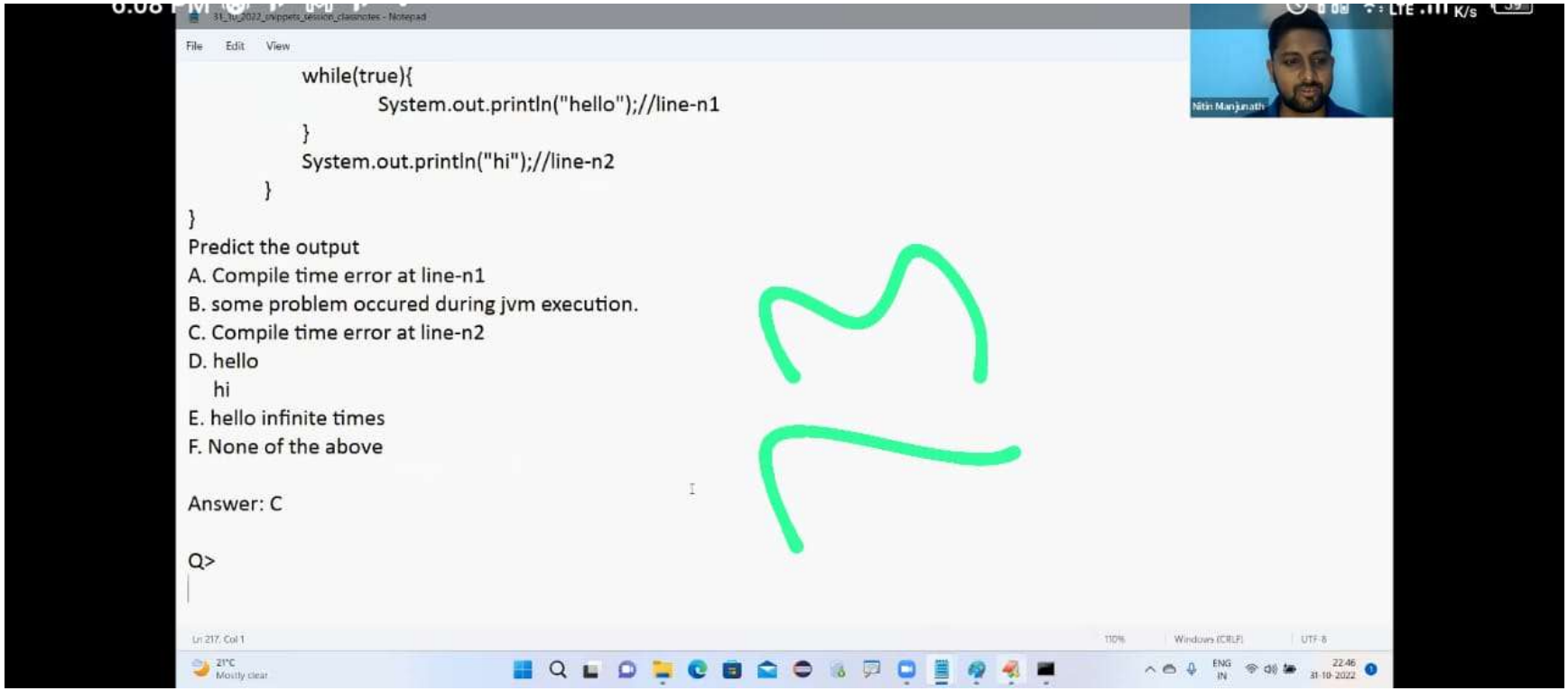

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
hi
D. hello
Answer: A(continue can be used only in loops and labelled block,otherplaces compile time error)
l1:
for()
{
l2: for()
{
l3: for()
{
break/break l3; // goto stmt-1
break l2; //goto stmt2
break l1;// goto stmt3
}
stmt-1;
}
stmt-2;
Nitin Manjunath
Ln 167, Col 1
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:29
31-10-2022

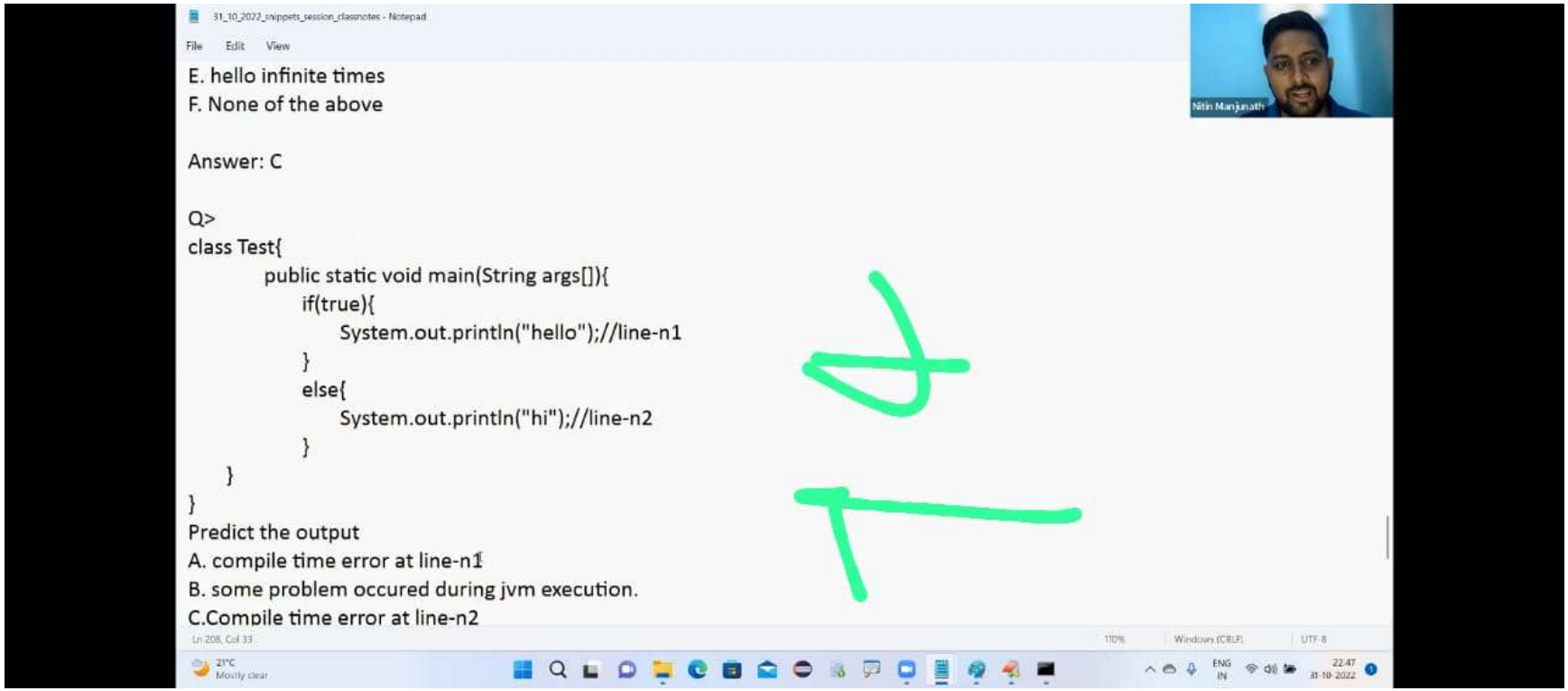

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Q>
class Test{
public static void main(String args[]){
l1:for(int i=0;i<3;i++) // i = 0,0<3(true), i = 1, 1<3(true), i =2, 2<3(true), i = 3,3<3(false)
{
for(int j=0;j<3;j++)//j = 2, 2<3(true)
{
if(i==j)
stmt1;
System.out.println(i+""+j);// 1 0 2 0 2 1
}
}
}
}
replace stmt1 with break and predict the output?
Answer:1 0 2 0 2 1
Nitin Manjunath
Ln 185, Col 20
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:36
31-10-2022

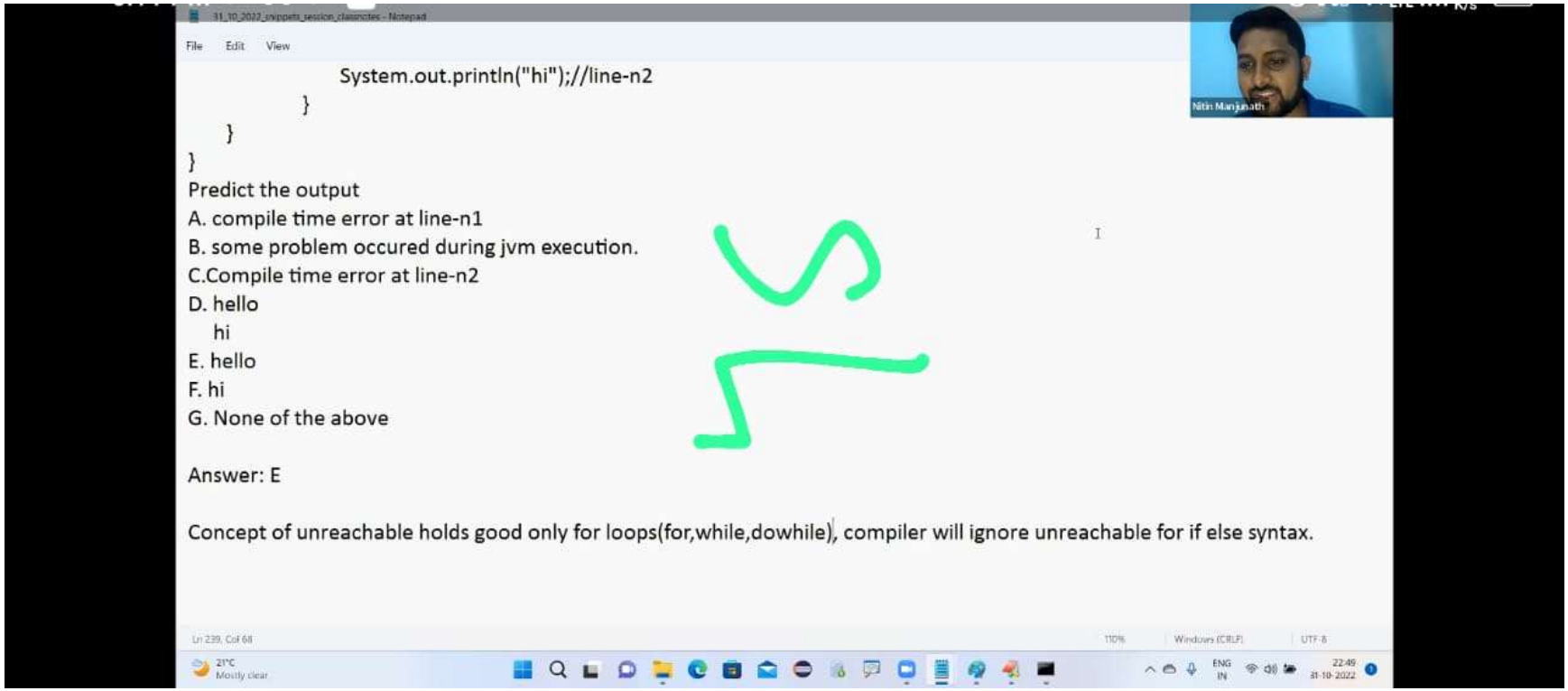

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
Nitin Manjunath
Q>
class Test{
public static void main(String args[]){
l1:for(int i=0;i<3;i++) // i = 0 ,0<3(true)
for(int j=0;j<3;j++)// j =0,0<3(true)
{
if(i==j)
stmt1;
System.out.println(i+""+j);
}
}
}
}
replace stmt1 with break and predict the output?
Answer:1 0 2 0 2 1
replace stmt1 with break l1 and predict the output?
Answer: no output
Ln 187, Col 19
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:38
31-10-2022

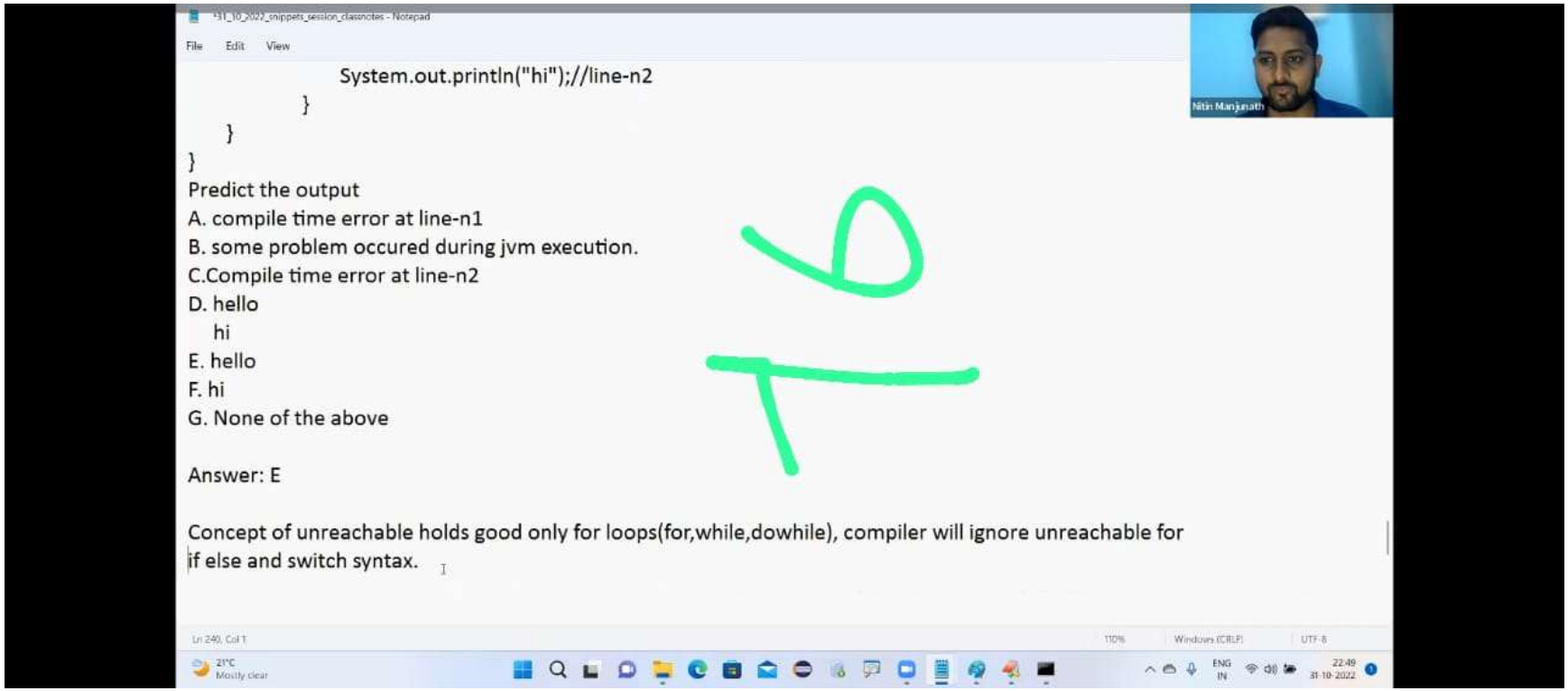

31_10_2022_snippets_session_classnotes - Notepad
File Edit View
public static void main(String args[]){
l1:for(int i=0;i<3;i++) // i = 3 ,3<3(false)
for(int j=0;j<3;j++)// j =0,0<3(true),j =1 ,1<3(true), j =2,2<3(true)
{
if(i==j)
stmt1; //
System.out.println(i+""+j);// 01, 02,10,12,20,21,
}
}
}
}
replace stmt1 with break and predict the output?
Answer:1 0 2 0 2 1
replace stmt1 with break l1 and predict the output?
Answer: no output
replace stmt1 with continue and predict the output?
Answer: // 01, 02,10,12,20,21
Nitin Manjunath


*31_10_2022_snippets_session_classnotes - Notepad
File Edit View
System.out.println(i+""+j);//10 20 21
}
}
}
}
replace stmt1 with break and predict the output?
Answer:1 0 2 0 2 1
replace stmt1 with break l1 and predict the output?
Answer: no output
replace stmt1 with continue and predict the output?
Answer: 01, 02,10,12,20,21
replace stmt1 with continue l1 and predict the output?
Answer: 10 20 21
Nitin Manjunath
Ln 190, Col 10
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:45
31-10-2022


File Edit View
while(true){
System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
}
}
Predict the output
A. Compile time error at line-n1
B. some problem occured during jvm execution.
C. Compile time error at line-n2
D. hello
hi
E. hello infinite times
F. None of the above
Answer: C
Q>


31_10_2022_snippets_session_classnotes - Notepad
File Edit View
E. hello infinite times
F. None of the above
Answer: C
Q>
class Test{
public static void main(String args[]){
if(true){
System.out.println("hello");//line-n1
}
else{
System.out.println("hi");//line-n2
}
}
}
Predict the output
A. compile time error at line-n1
B. some problem occured during jvm execution.
C.Compile time error at line-n2
Nitin Manjunath
Ln 208, Col 33
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:47
31-10-2022


31_10_2022_snippets_session_classnotes - Notepad
File Edit View
System.out.println("hi");//line-n2
}
}
}
Predict the output
A. compile time error at line-n1
B. some problem occured during jvm execution.
C.Compile time error at line-n2
D. hello
hi
E. hello
F. hi
G. None of the above
Answer: E
Concept of unreachable holds good only for loops(for,while,dowhile), compiler will ignore unreachable for if else syntax.
Nitin Manjunath
Ln 239, Col 68
110%
Windows (CRLF)
UTF-8
21°C
Mostly clear
ENG
IN
22:49
31-10-2022


31_10_2022_snippets_session_classnotes - Notepad
File Edit View
System.out.println("hi");//line-n2
}
}
}
Predict the output
A. compile time error at line-n1
B. some problem occured during jvm execution.
C.Compile time error at line-n2
D. hello
hi
E. hello
F. hi
G. None of the above
Answer: E
Concept of unreachable holds good only for loops(for,while,dowhile), compiler will ignore unreachable for if else and switch syntax.
Nitin Manjunath