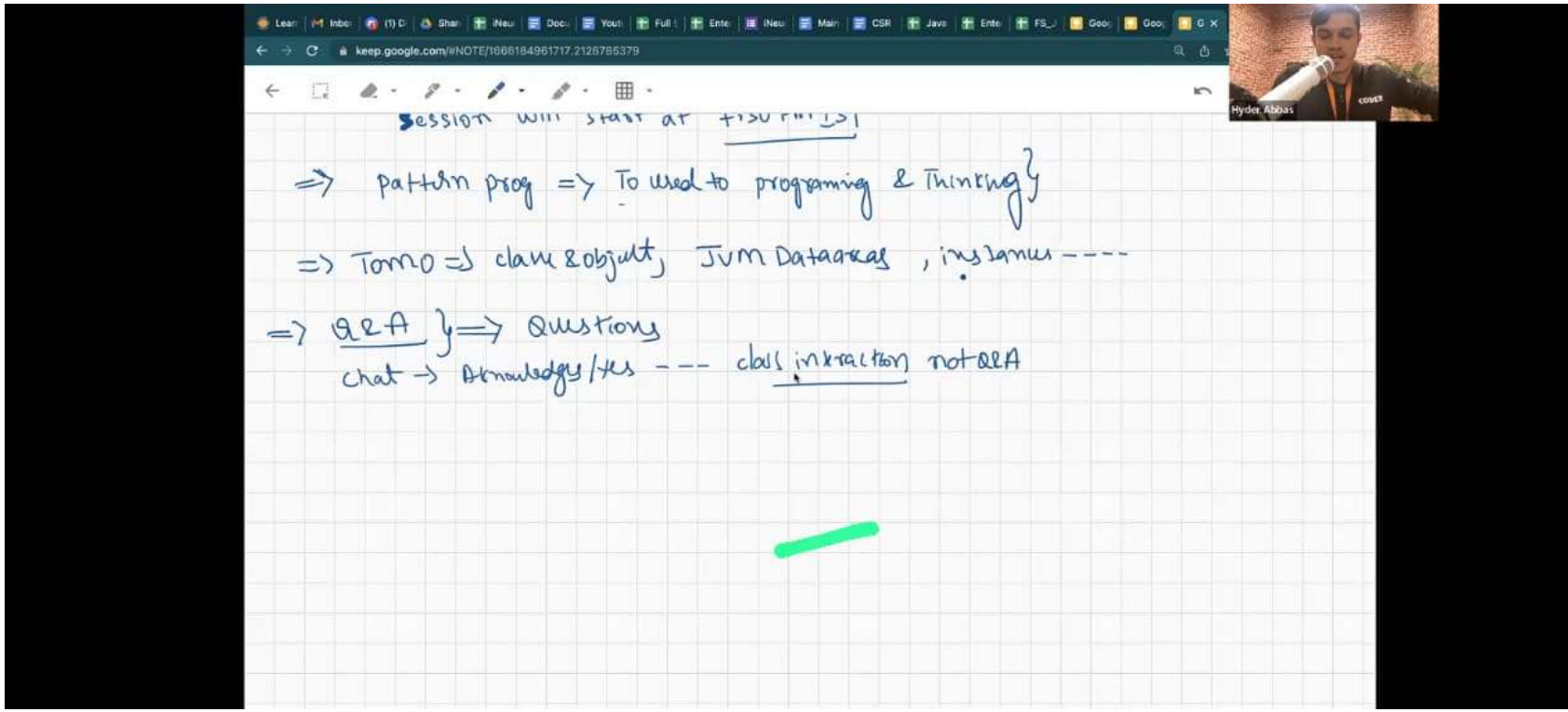
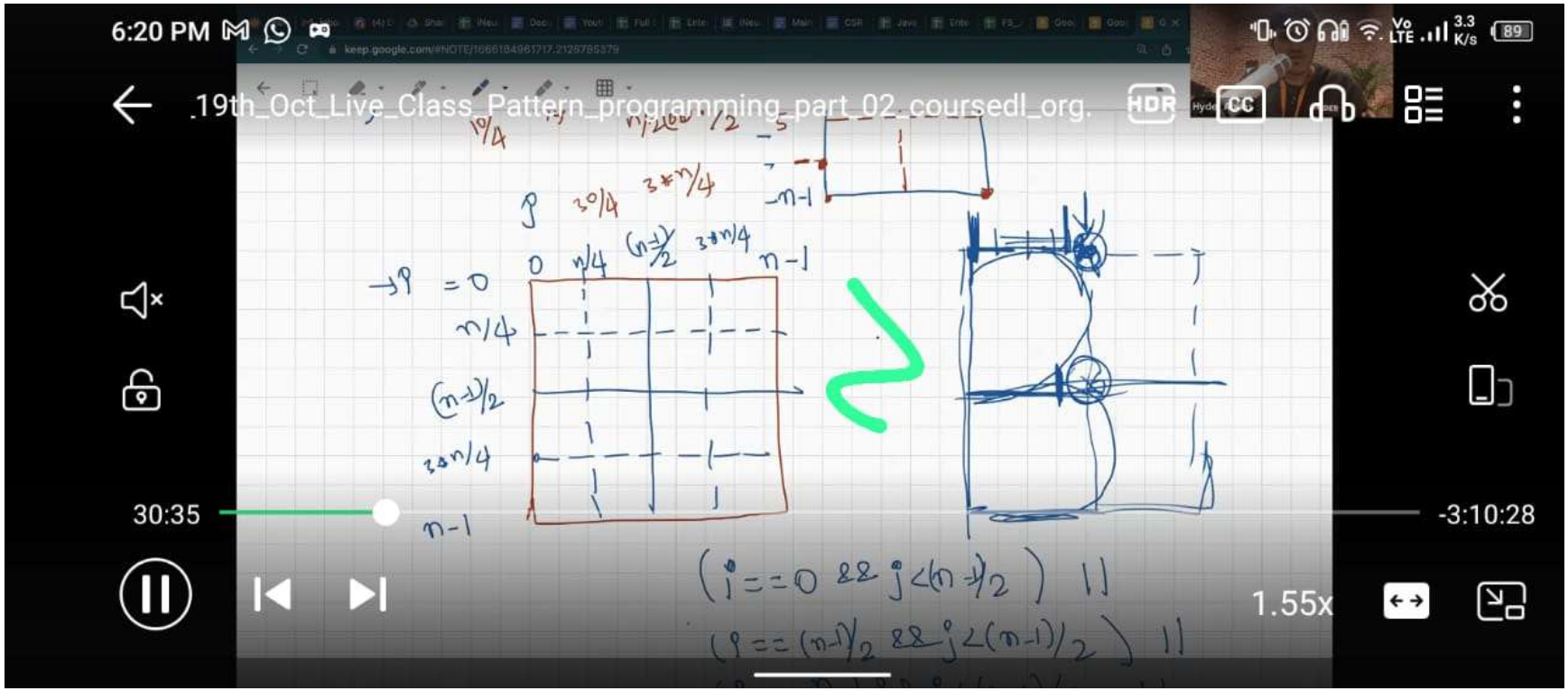
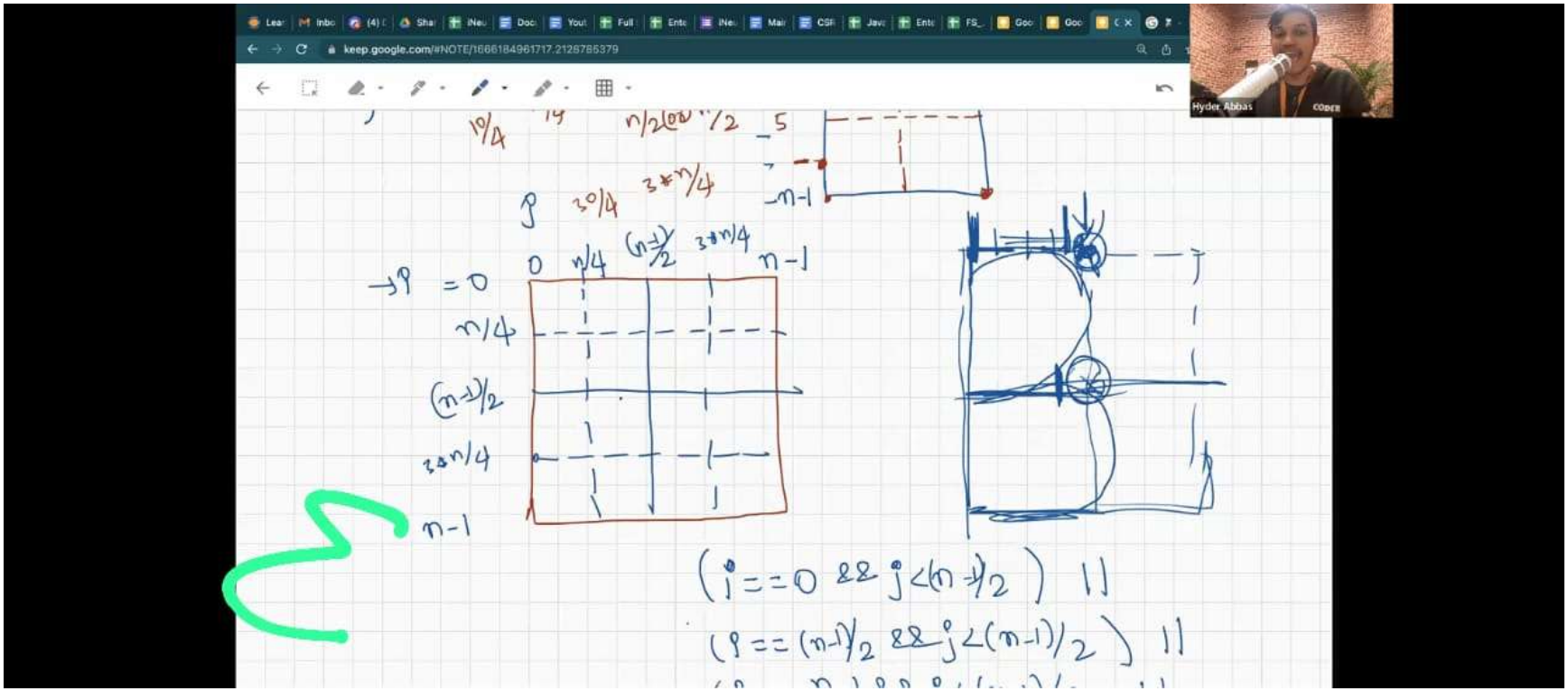
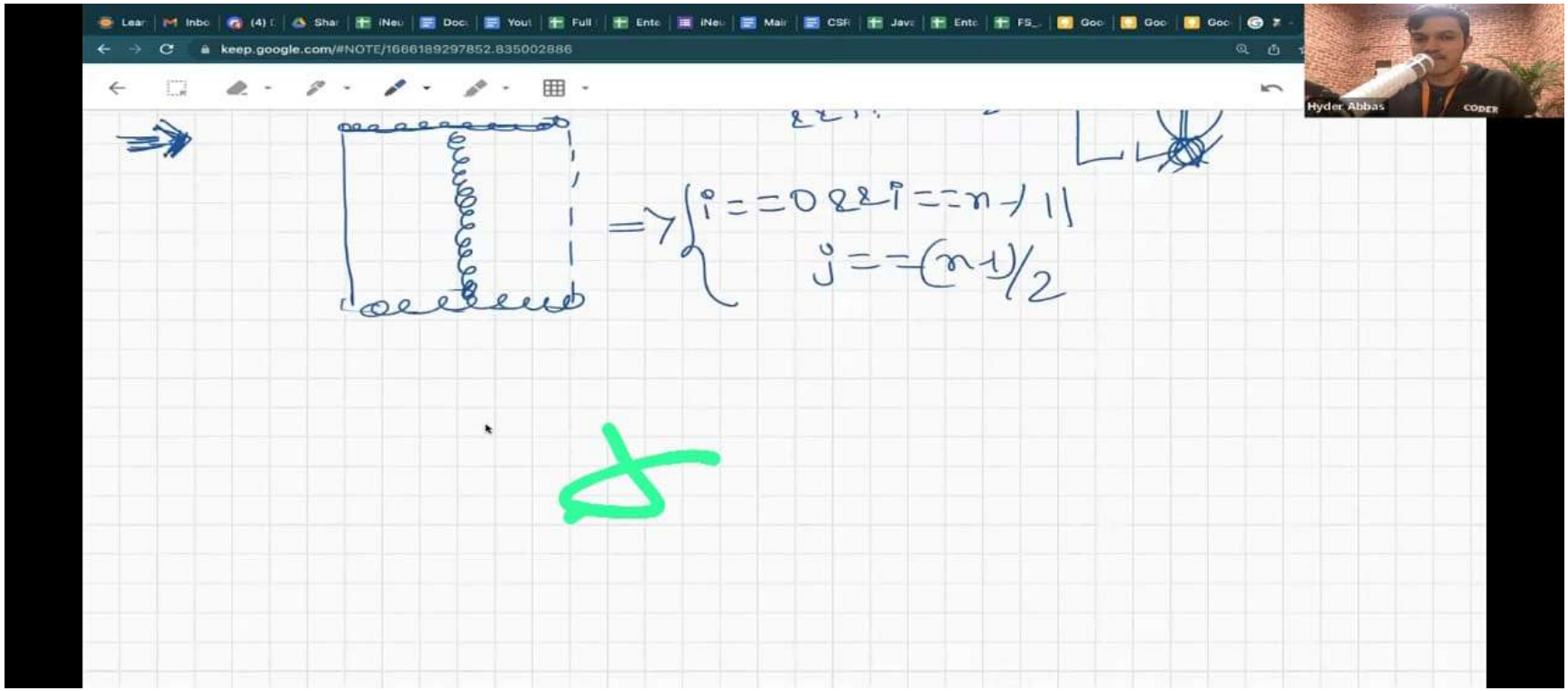
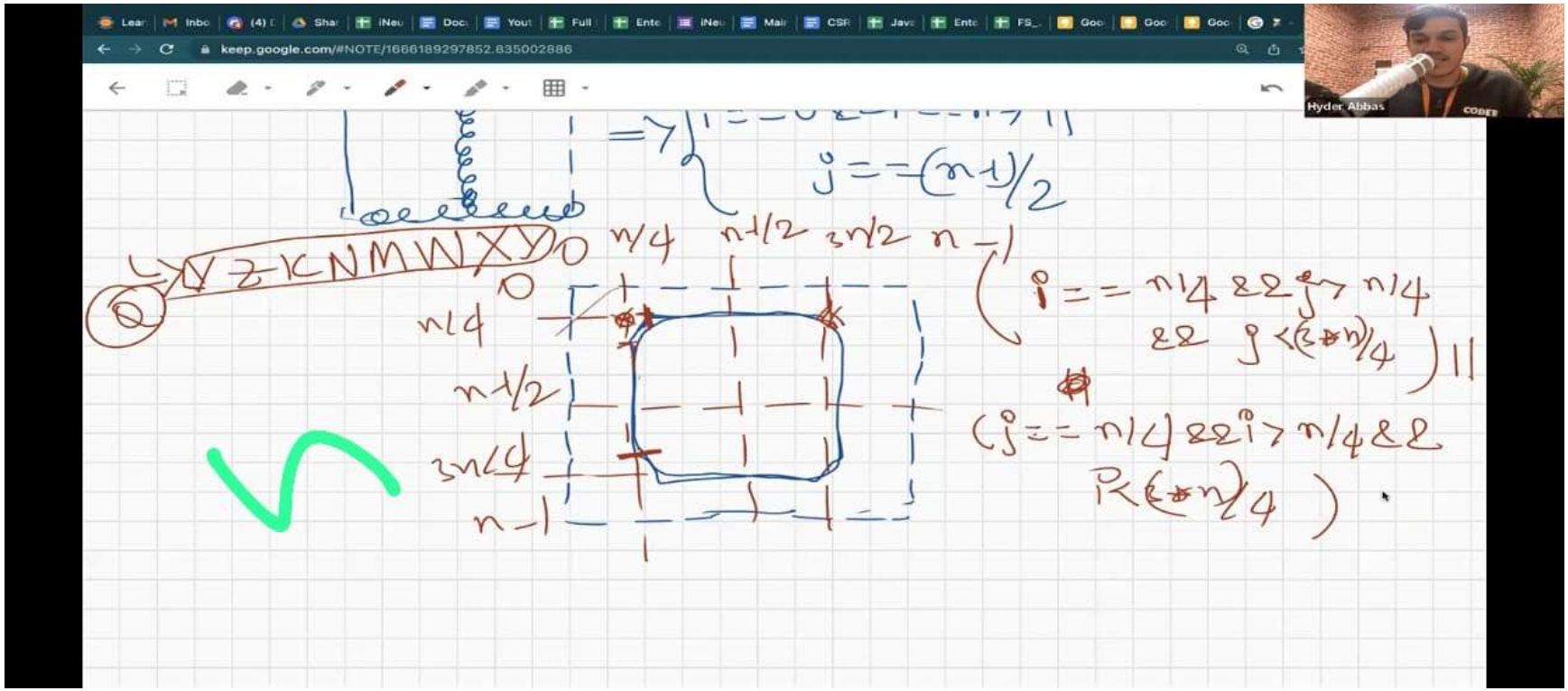
7Loops_And_Pattern2

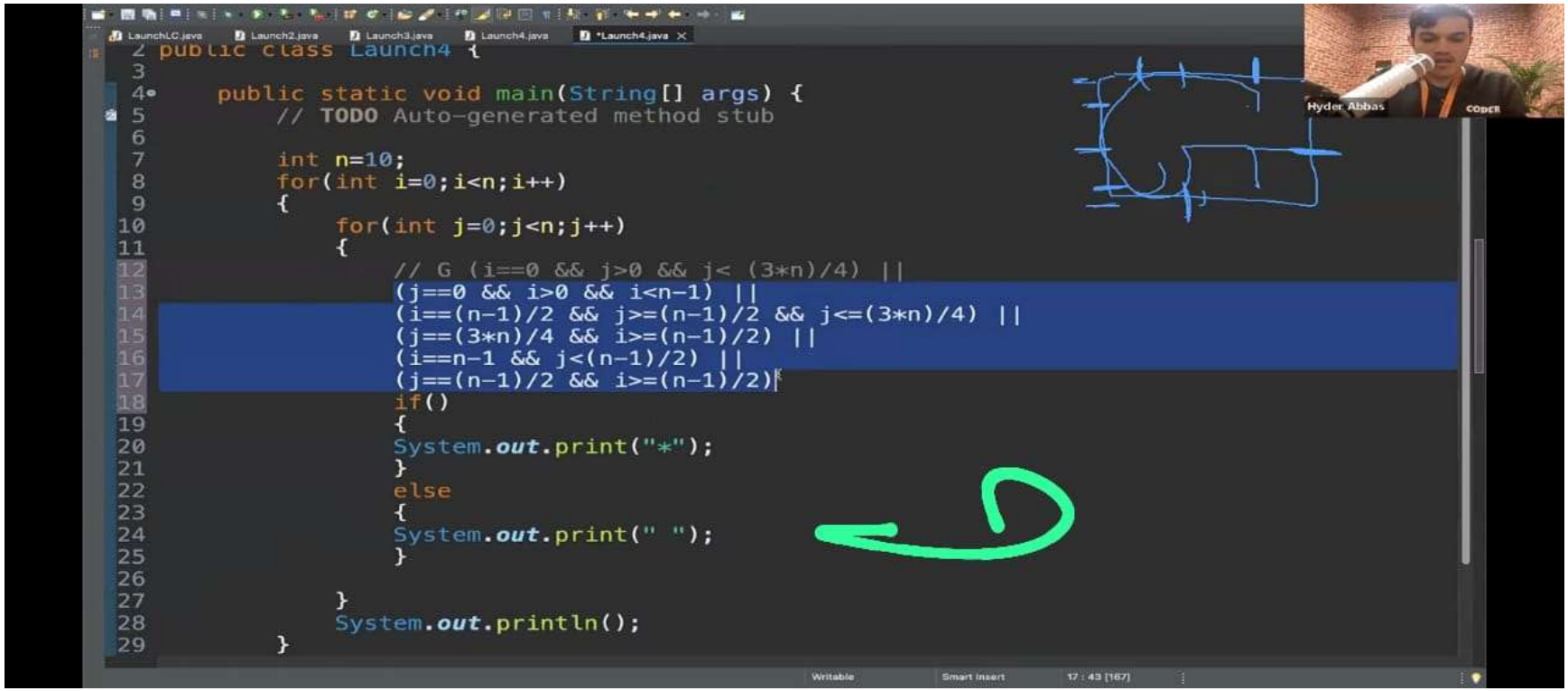


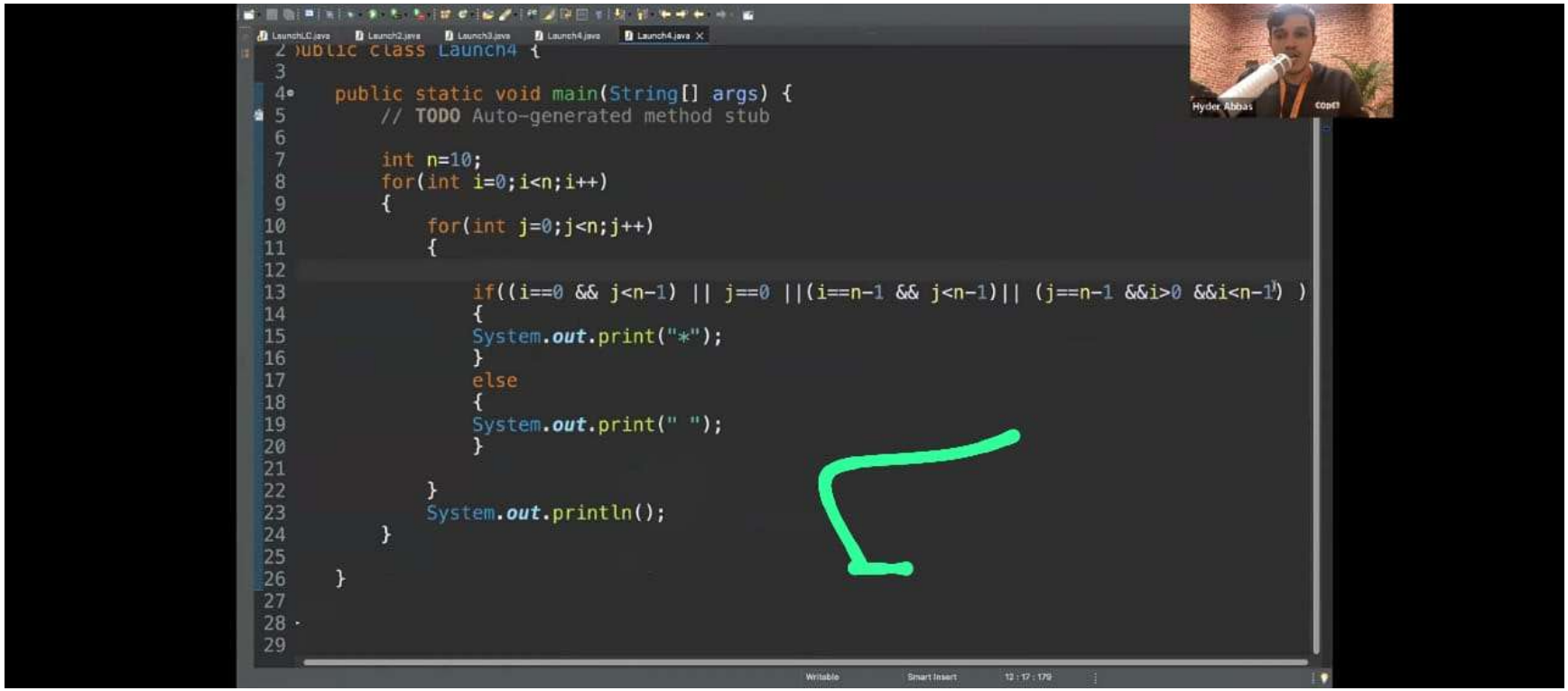

6:20 PM
19th_Oct_Live_Class_Pattern_programming_part_02_coursedl_org.
HDR
CC
30:35
-3:10:28
1.55x
(i==0 && j<(n-1)/2) ||
(i==(n-1)/2 && j<(n-1)/2) ||


keep.google.com/#NOTE/1666184961717.2125785379
Hyder Abbas
n/4
3*n/4
n-1
0
(n-1)/2
3*n/4
n-1
i==0 && j<(n-1)/2
i==(n-1)/2 && j<(n-1)/2

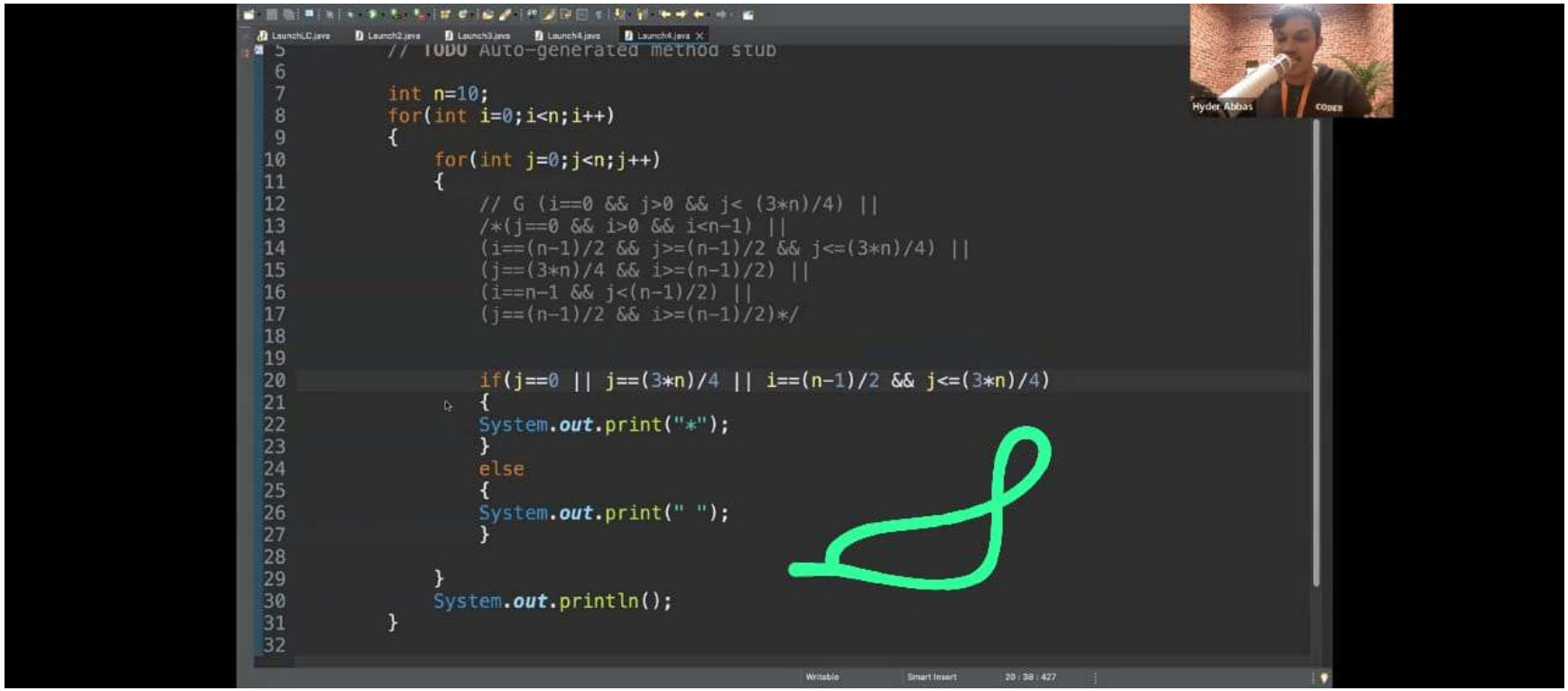

keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
CODER
i==0 && i==n-1 ||
j==-(n-1)/2

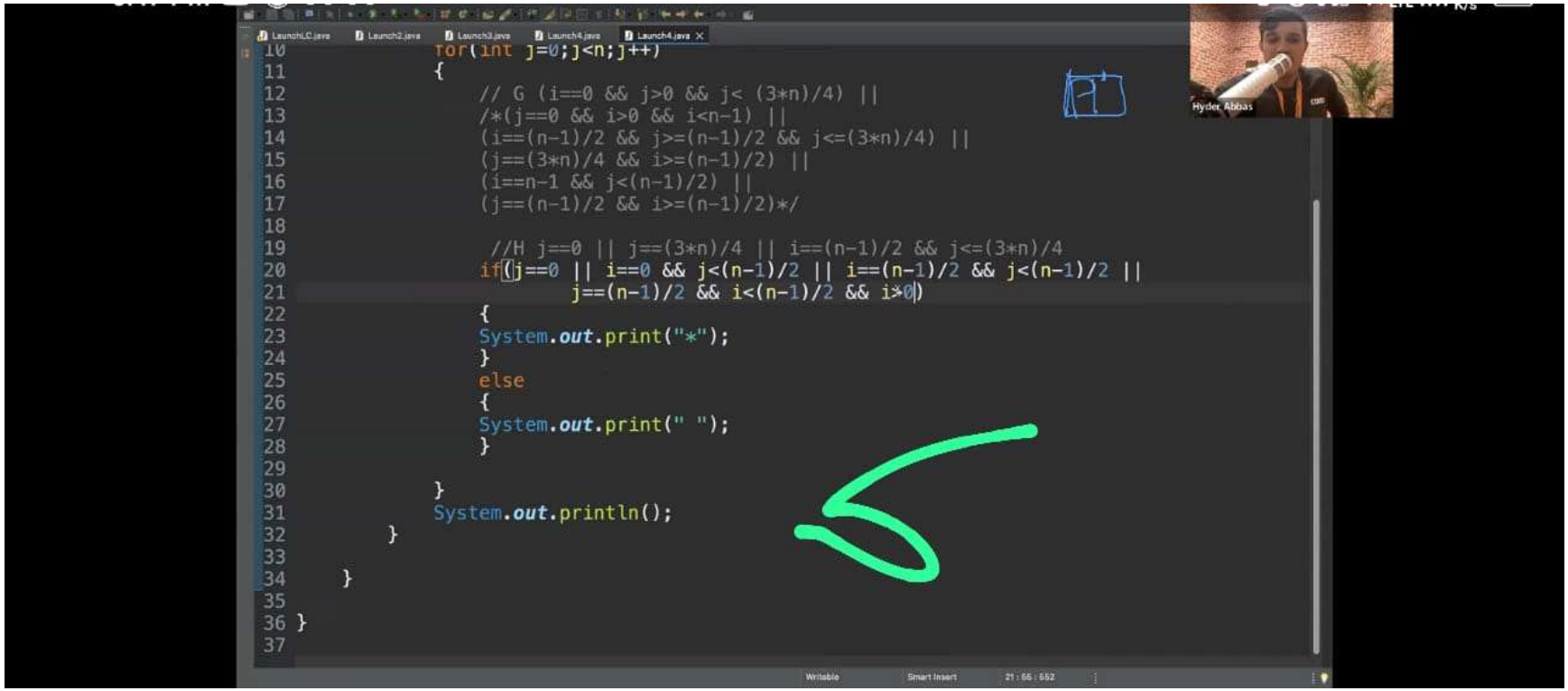

keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
j==(n-1)/2
n/4
n-1/2
3n/2
n-1
0
n/4
n-1/2
3n/4
n-1
i==n/4 && j>n/4
&& j<(3*n)/4) ||
(j==n/4 && i>n/4 &&
i<(3*n)/4).

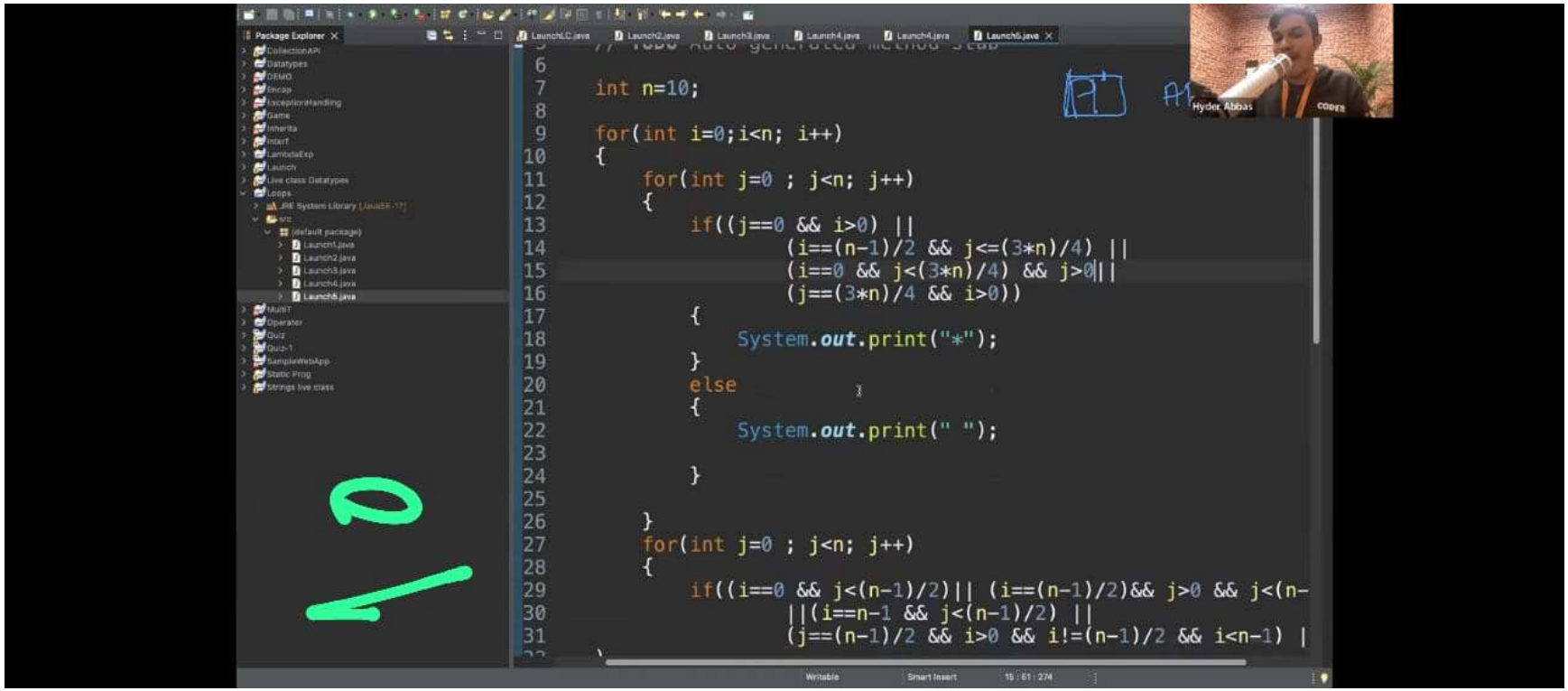

LaunchLC.java
Launch2.java
Launch3.java
Launch4.java
*Launch4.java
public class Launch4 {
public static void main(String[] args) {
// TODO Auto-generated method stub
int n=10;
for(int i=0;i<n;i++)
{
for(int j=0;j<n;j++)
{
// G (i==0 && j>0 && j< (3*n)/4) ||
(j==0 && i>0 && i<n-1) ||
(i==(n-1)/2 && j>=(n-1)/2 && j<=(3*n)/4) ||
(j==(3*n)/4 && i>=(n-1)/2) ||
(i==n-1 && j<(n-1)/2) ||
(j==(n-1)/2 && i>=(n-1)/2)
if()
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
Hyder Abbas
CODER
Writable
Smart Insert
17 : 43 [167]

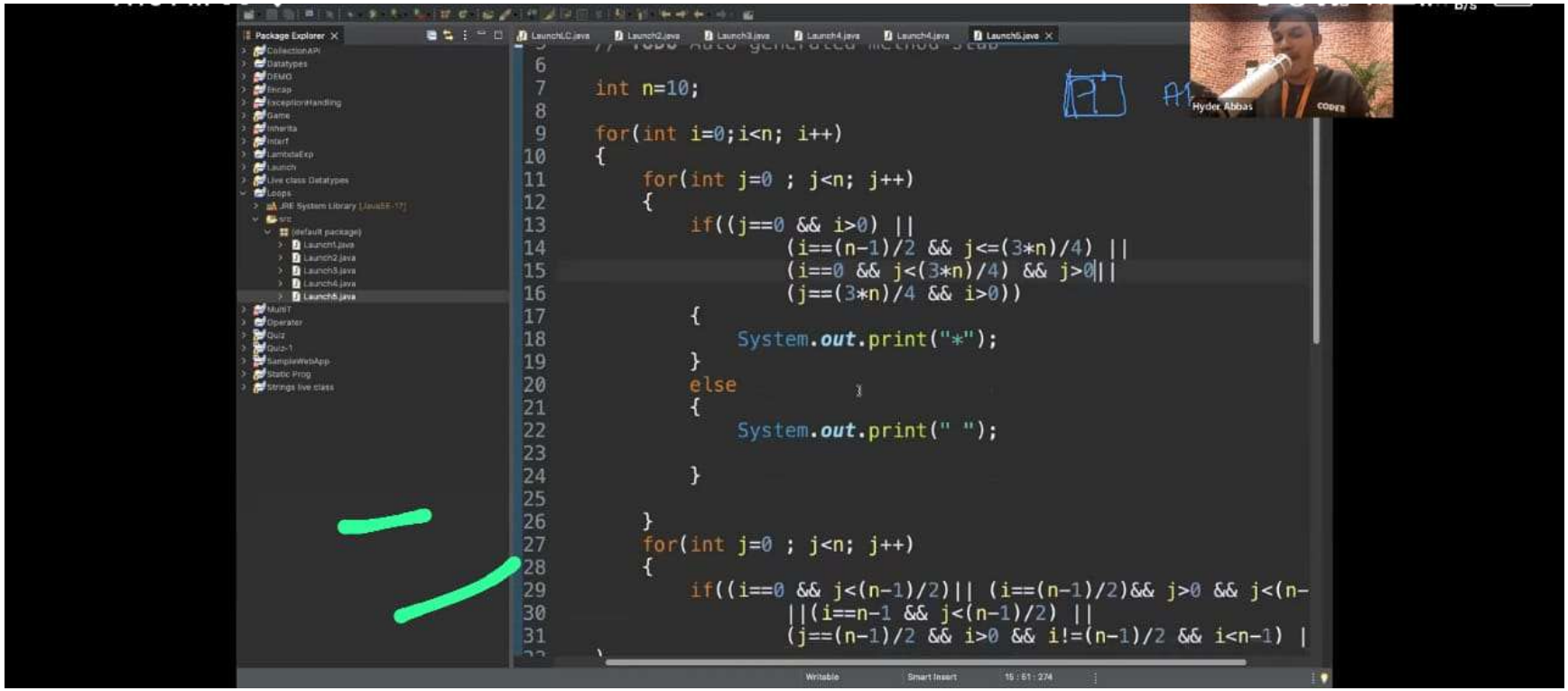


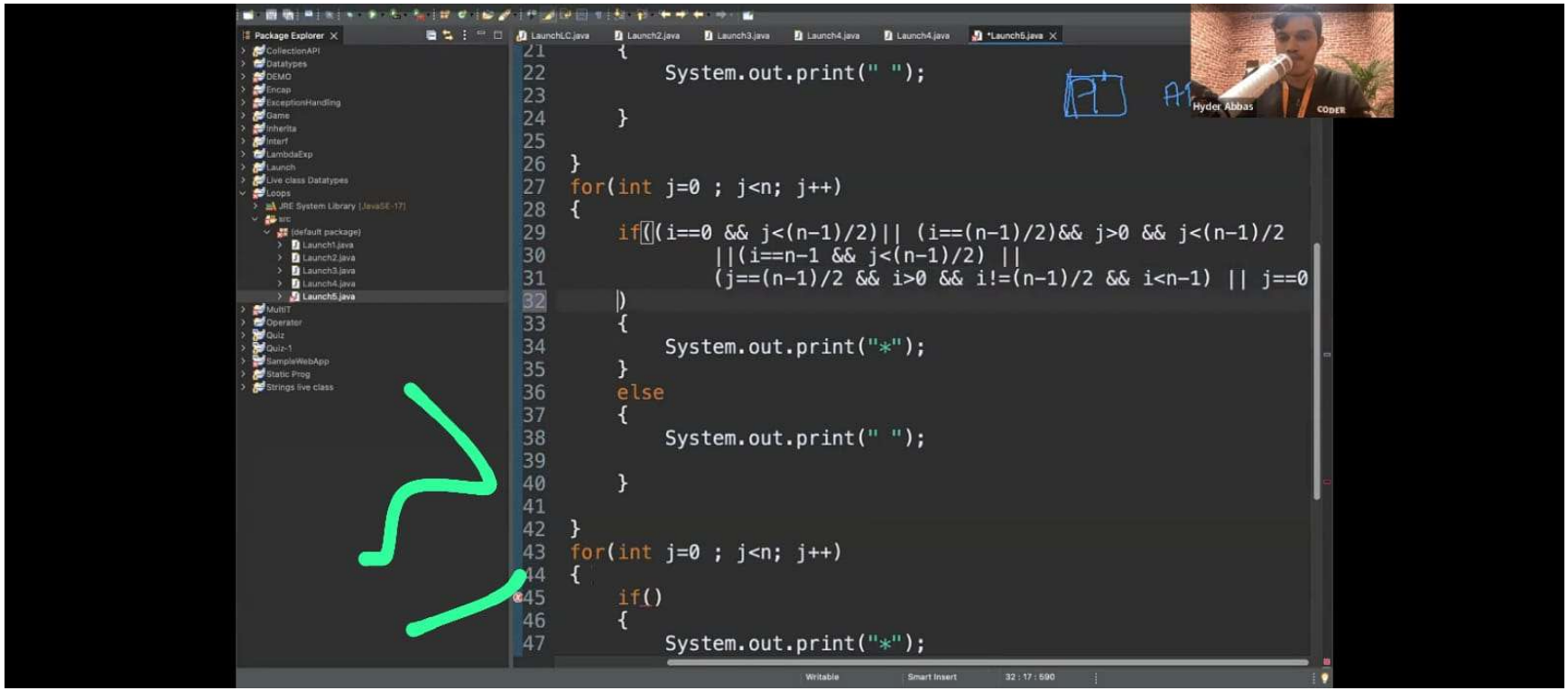

```
public class Launch4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=10;
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<n;j++)
            {

                if((i==0 && j<n-1) || j==0 ||(i==n-1 && j<n-1)|| (j==n-1 &&i>0 &&i<n-1) )
                {
                System.out.print("*");
                }
                else
                {
                System.out.print(" ");
                }

            }
            System.out.println();
        }

    }
```


Launch1C.java
Launch2.java
Launch3.java
Launch4.java
Launch4.java
// TODO Auto-generated method stub
int n=10;
for(int i=0;i<n;i++)
{
for(int j=0;j<n;j++)
{
// G (i==0 && j>0 && j< (3*n)/4) ||
/*(j==0 && i>0 && i<n-1) ||
(i==(n-1)/2 && j>=(n-1)/2 && j<=(3*n)/4) ||
(j==(3*n)/4 && i>=(n-1)/2) ||
(i==n-1 && j<(n-1)/2) ||
(j==(n-1)/2 && i>=(n-1)/2)*/
if(j==0 || j==(3*n)/4 || i==(n-1)/2 && j<=(3*n)/4)
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
Hyder Abbas
CODER
Writable
Smart Insert
20 : 38 : 427


Launch1C.java
Launch2.java
Launch3.java
Launch4.java
Launch4.java
for(int j=0;j<n;j++)
{
// G (i==0 && j>0 && j< (3*n)/4) ||
/*(j==0 && i>0 && i<n-1) ||
(i==(n-1)/2 && j>=(n-1)/2 && j<=(3*n)/4) ||
(j==(3*n)/4 && i>=(n-1)/2) ||
(i==n-1 && j<(n-1)/2) ||
(j==(n-1)/2 && i>=(n-1)/2)*/
//H j==0 || j==(3*n)/4 || i==(n-1)/2 && j<=(3*n)/4
if(j==0 || i==0 && j<(n-1)/2 || i==(n-1)/2 && j<(n-1)/2 ||
j==(n-1)/2 && i<(n-1)/2 && i*0)
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
}
}
Hyder Abbas
Writable
Smart Insert
21 : 66 : 652


Package Explorer
Launch1.java
Launch2.java
Launch3.java
Launch4.java
Launch5.java
int n=10;
for(int i=0;i<n; i++)
{
for(int j=0 ; j<n; j++)
{
if((j==0 && i>0) ||
(i==(n-1)/2 && j<=(3*n)/4) ||
(i==0 && j<(3*n)/4) && j>0||
(j==(3*n)/4 && i>0))
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
for(int j=0 ; j<n; j++)
{
if((i==0 && j<(n-1)/2)|| (i==(n-1)/2)&& j>0 && j<(n-
||(i==n-1 && j<(n-1)/2) ||
(j==(n-1)/2 && i>0 && i!=(n-1)/2 && i<n-1) |
Hyder Abbas
Writable
Smart Insert


Package Explorer
Launch1.java
Launch2.java
Launch3.java
Launch4.java
Launch5.java
int n=10;
for(int i=0;i<n; i++)
{
for(int j=0 ; j<n; j++)
{
if((j==0 && i>0) ||
(i==(n-1)/2 && j<=(3*n)/4) ||
(i==0 && j<(3*n)/4) && j>0||
(j==(3*n)/4 && i>0))
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
for(int j=0 ; j<n; j++)
{
if((i==0 && j<(n-1)/2)|| (i==(n-1)/2)&& j>0 && j<(n-
||(i==n-1 && j<(n-1)/2) ||
(j==(n-1)/2 && i>0 && i!=(n-1)/2 && i<n-1) |
Hyder Abbas
Writable
Smart Insert


Package Explorer
CollectionAPI
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Encap
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Inherita
Interf
LambdaExp
Launch
Live class Datatypes
Loops
JRE System Library [JavaSE-17]
src
(default package)
Launch1.java
Launch2.java
Launch3.java
Launch4.java
Launch5.java
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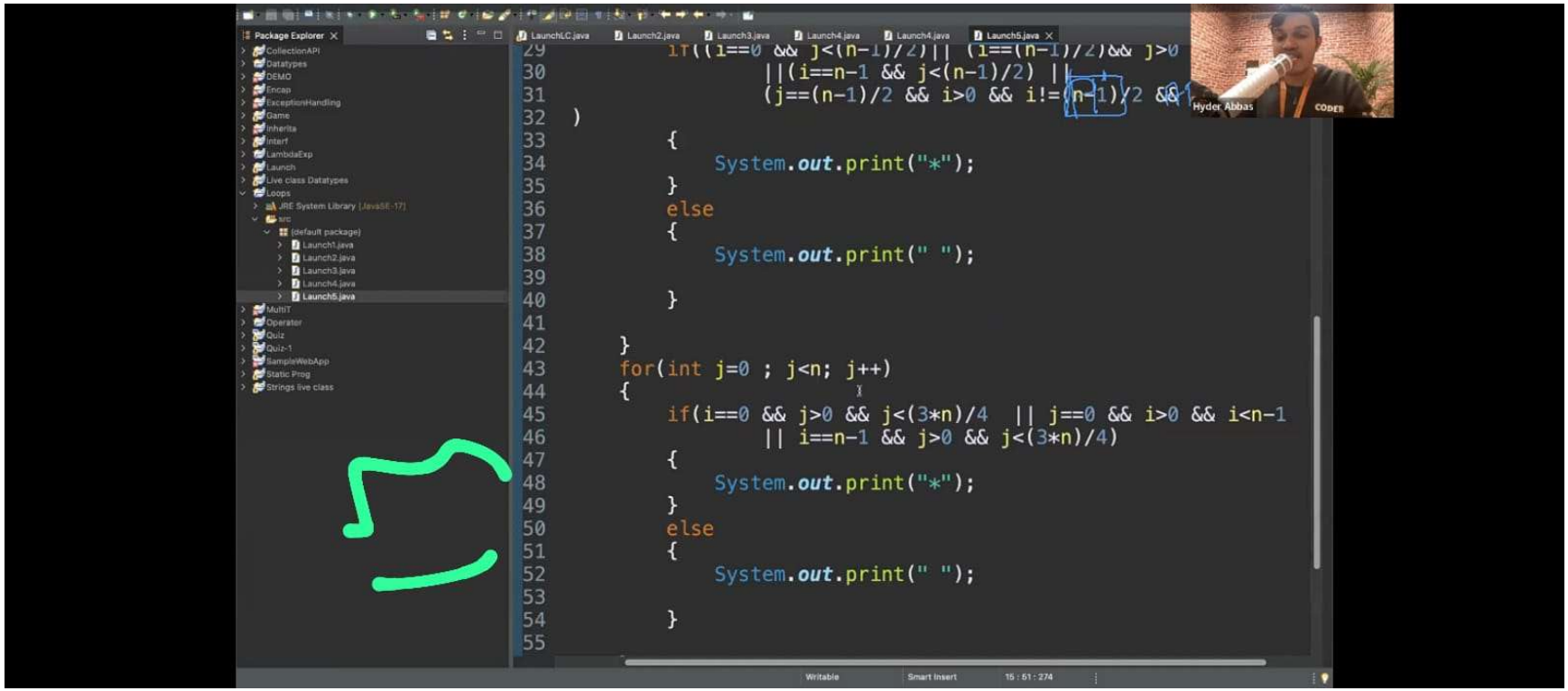
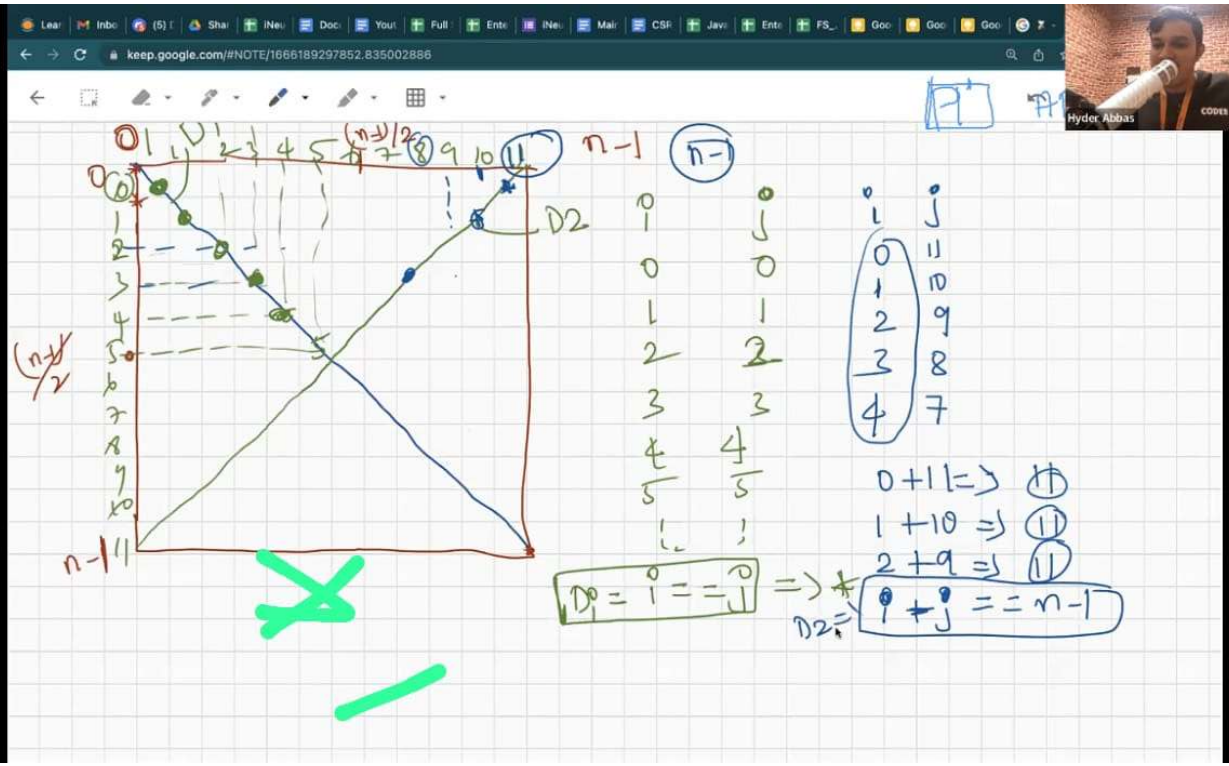
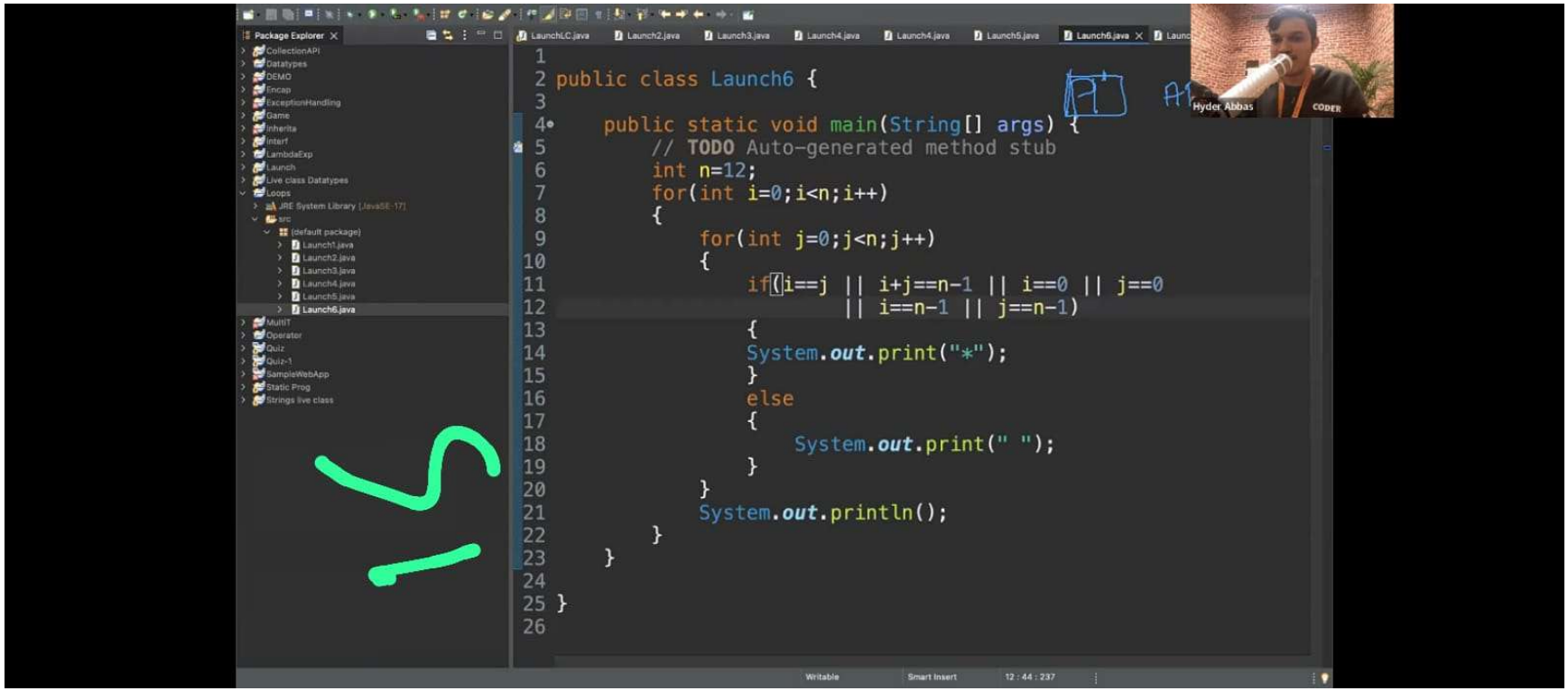
Quiz
Quiz-1
SampleWebApp
Static Prog
Strings live class
LaunchLC.java
Launch2.java
Launch3.java
Launch4.java
Launch4.java
*Launch5.java
21 {
22 System.out.print(" ");
23
24 }
25
26 }
27 for(int j=0 ; j<n; j++)
28 {
29 if((i==0 && j<(n-1)/2)|| (i==(n-1)/2)&& j>0 && j<(n-1)/2
30 ||(i==n-1 && j<(n-1)/2) ||
31 (j==(n-1)/2 && i>0 && i!=(n-1)/2 && i<n-1) || j==0
32)
33 {
34 System.out.print("*");
35 }
36 else
37 {
38 System.out.print(" ");
39
40 }
41
42 }
43 for(int j=0 ; j<n; j++)
44 {
45 if()
46 {
47 System.out.print("*");
Hyder Abbas
CODER
Writable
Smart Insert
32 : 17 : 590




```
29              if((i==0 && j<(n-1)/2)|| (i==(n-1)/2)&& j>0
30                      ||(i==n-1 && j<(n-1)/2) ||
31                      (j==(n-1)/2 && i>0 && i!=(n-1)/2 &&
32  )
33          {
34              System.out.print("*");
35          }
36          else
37          {
38              System.out.print(" ");
39
40          }
41
42      }
43      for(int j=0 ; j<n; j++)
44      {
45          if(i==0 && j>0 && j<(3*n)/4  || j==0 && i>0 && i<n-1
46                  || i==n-1 && j>0 && j<(3*n)/4)
47          {
48              System.out.print("*");
49          }
50          else
51          {
52              System.out.print(" ");
53
54          }
55
```


keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
CODES
D1
D2
n-1
(n-1)/2
i j
0 11
1 10
2 9
3 8
4 7
0+11 => 11
1+10 => 11
2+9 => 11
D1 = i == j => ✗
D2 => i + j == n-1


Package Explorer
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Quiz-1
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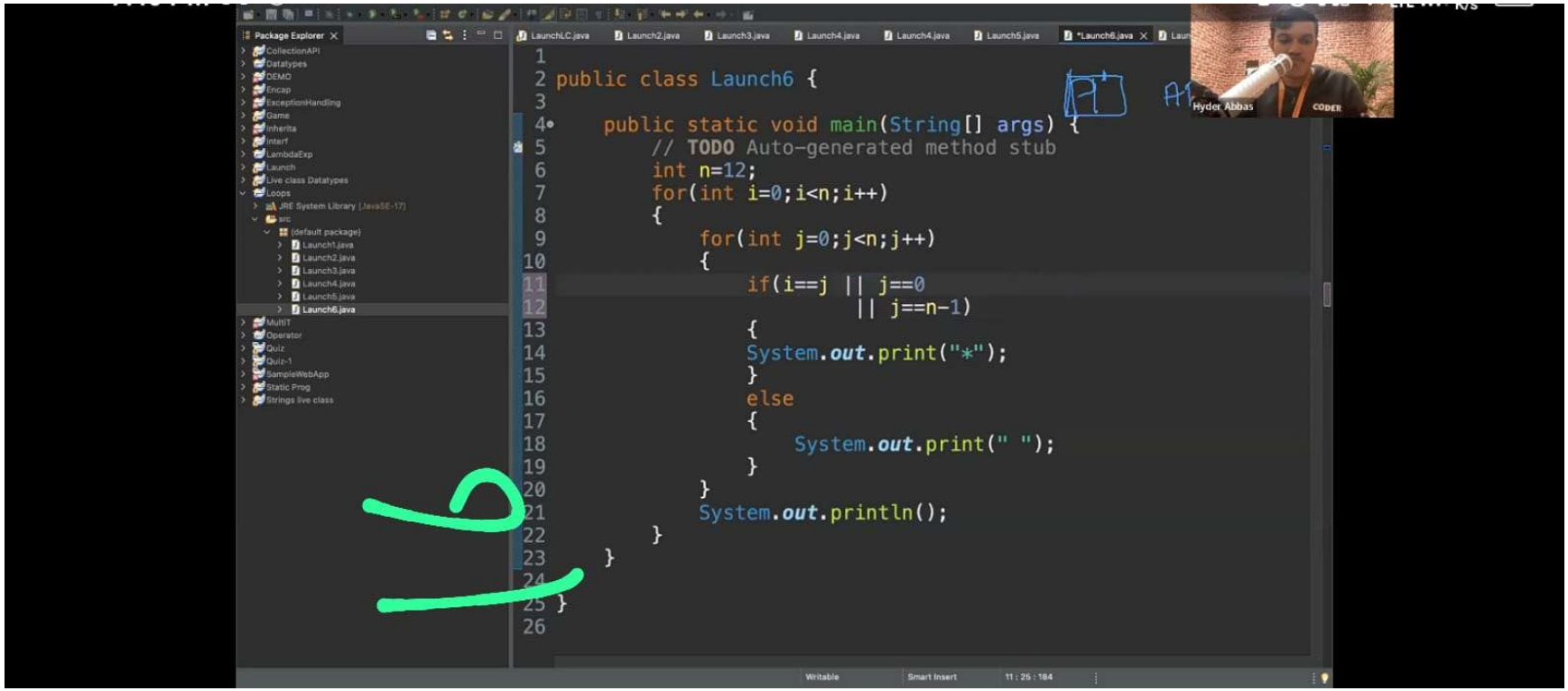
Static Prog
Strings live class
LaunchLC.java
Launch2.java
Launch3.java
Launch4.java
Launch4.java
Launch5.java
Launch6.java
1 public class Launch6 {
2
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5 int n=12;
6 for(int i=0;i<n;i++)
7 {
8 for(int j=0;j<n;j++)
9 {
10 if(i==j || i+j==n-1 || i==0 || j==0
11 || i==n-1 || j==n-1)
12 {
13 System.out.print("*");
14 }
15 else
16 {
17 System.out.print(" ");
18 }
19 }
20 System.out.println();
21 }
22 }
23
24 }
25
26
Hyder Abbas
CODER
Writable
Smart Insert
12 : 44 : 237


Package Explorer
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Launch4.java
Launch5.java
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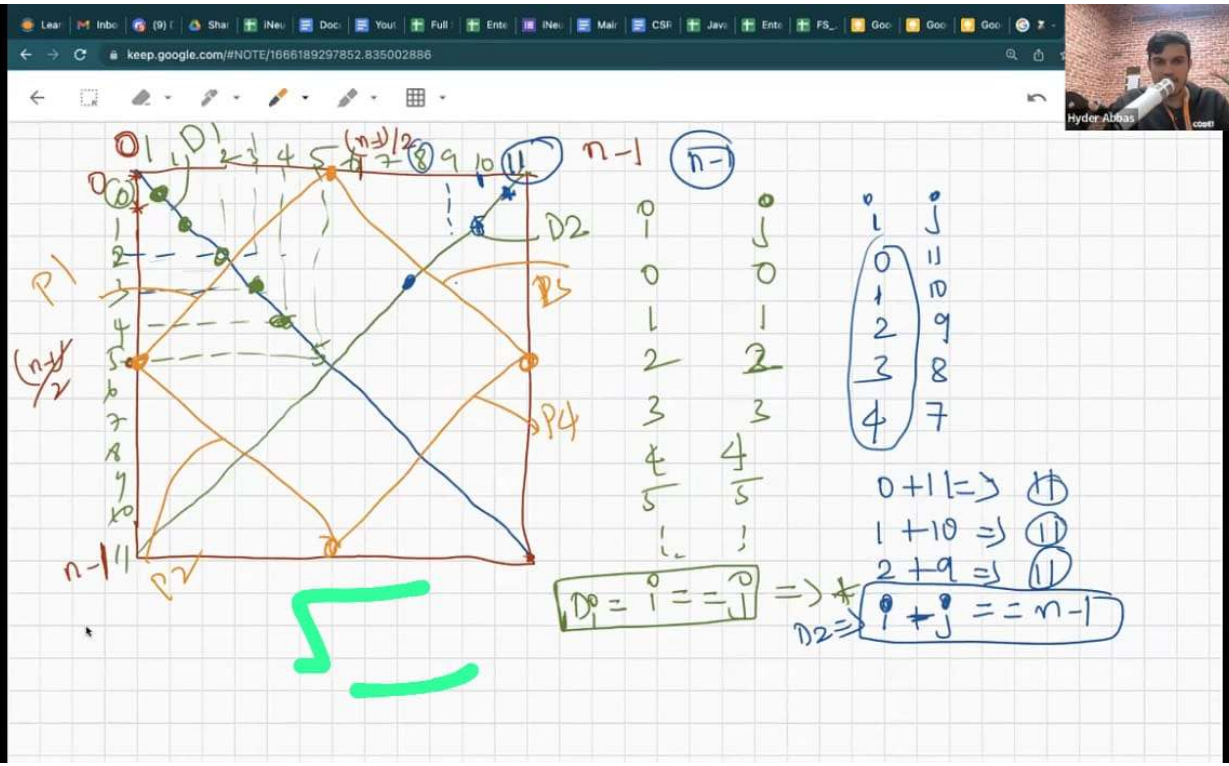
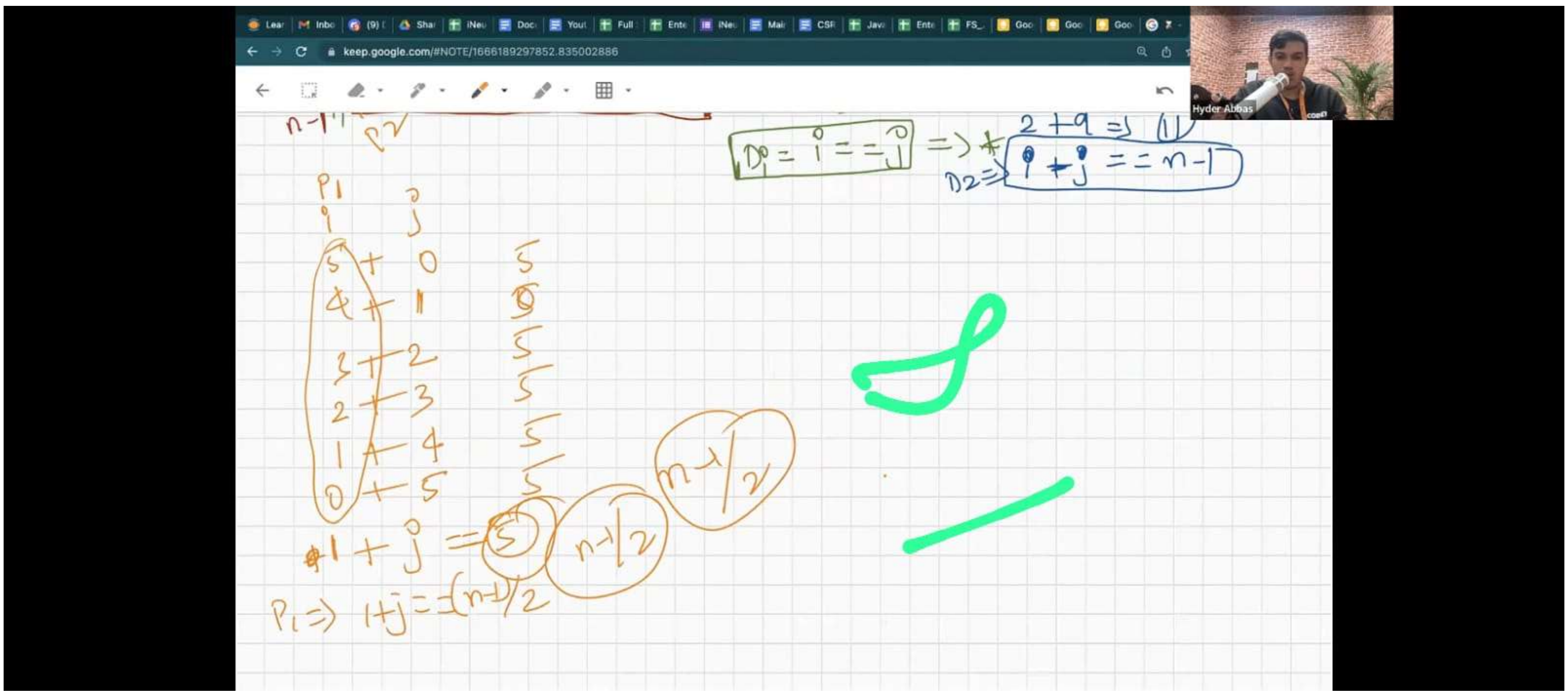
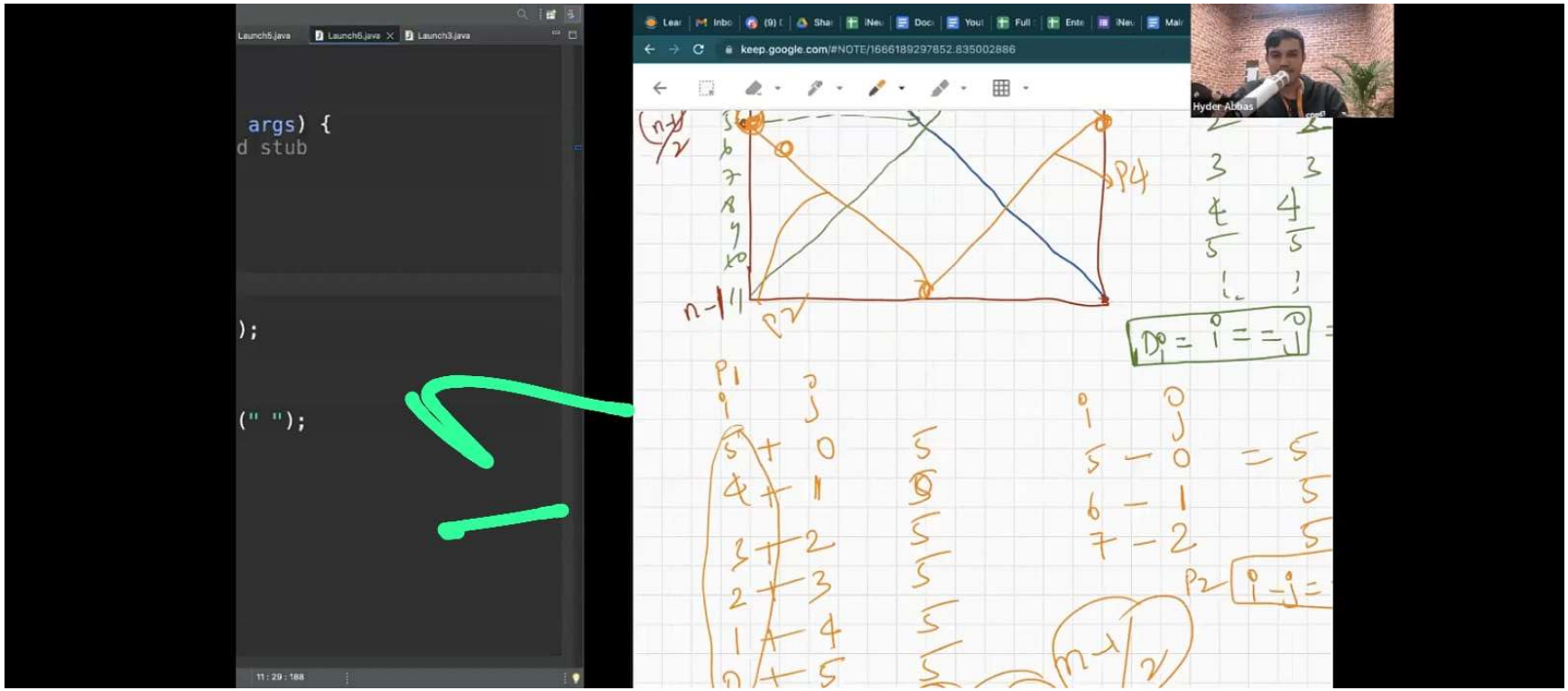
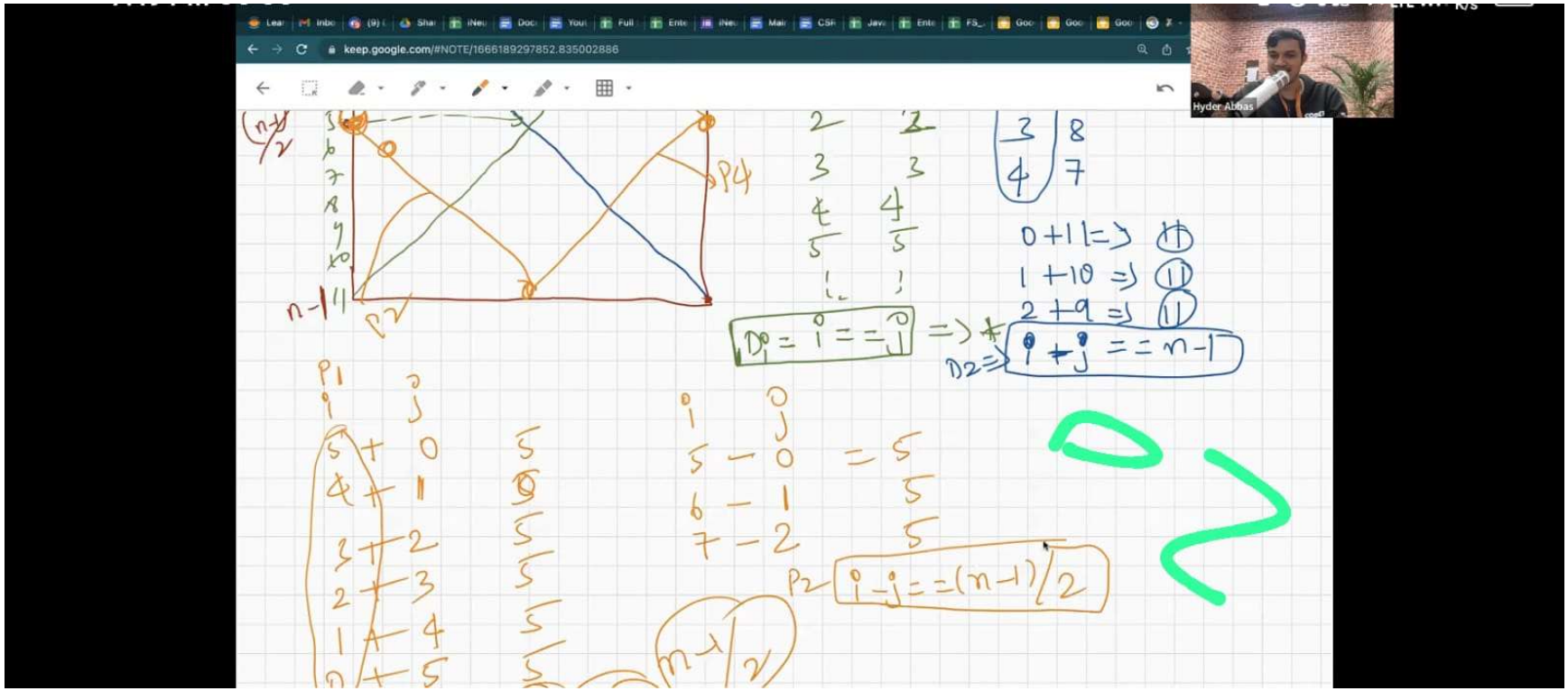
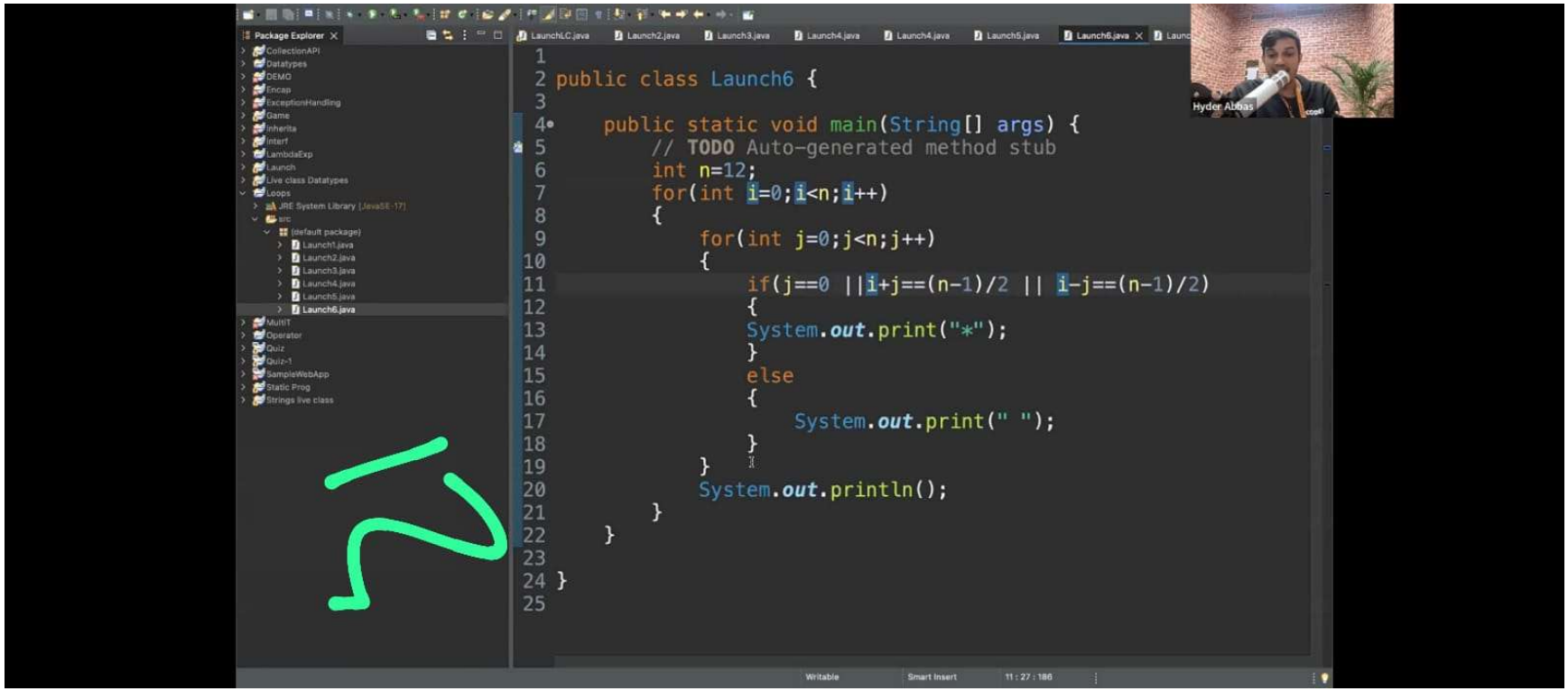
1 public class Launch6 {
2
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5 int n=12;
6 for(int i=0;i<n;i++)
7 {
8 for(int j=0;j<n;j++)
9 {
10 if(i==j || j==0
11 || j==n-1)
12 {
13 System.out.print("*");
14 }
15 else
16 {
17 System.out.print(" ");
18 }
19 }
20 System.out.println();
21 }
22 }
23
24 }
25
26
Hyder Abbas
CODER
Writable
Smart Insert
11 : 25 : 184


keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
D1
D2
P1
P2
P3
P4
n-1
(n-1)/2
i j
0 10
1 9
2 8
3 7
4
0+11 => 11
1+10 => 11
2+9 => 11
D1 = i == j
D2 => i + j == n-1


keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
D1 = i == j
2 + 9 => 11
D2 => i + j == n-1
P1
i j
5 + 0
4 + 1
3 + 2
2 + 3
1 + 4
0 + 5
i + j == 5
n-1/2
P1 => i+j == (n-1)/2


Launch5.java
Launch6.java
Launch3.java
args) {
d stub
);
(" ");
11 : 29 : 188
keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
P1
P2
P4


keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
P4
P3
n-1
P1
P2
D1 = i == j
D2 => i + j == n-1
i - j == (n-1)/2
0+11 => 11
1+10 => 11
2+9 => 11


Package Explorer
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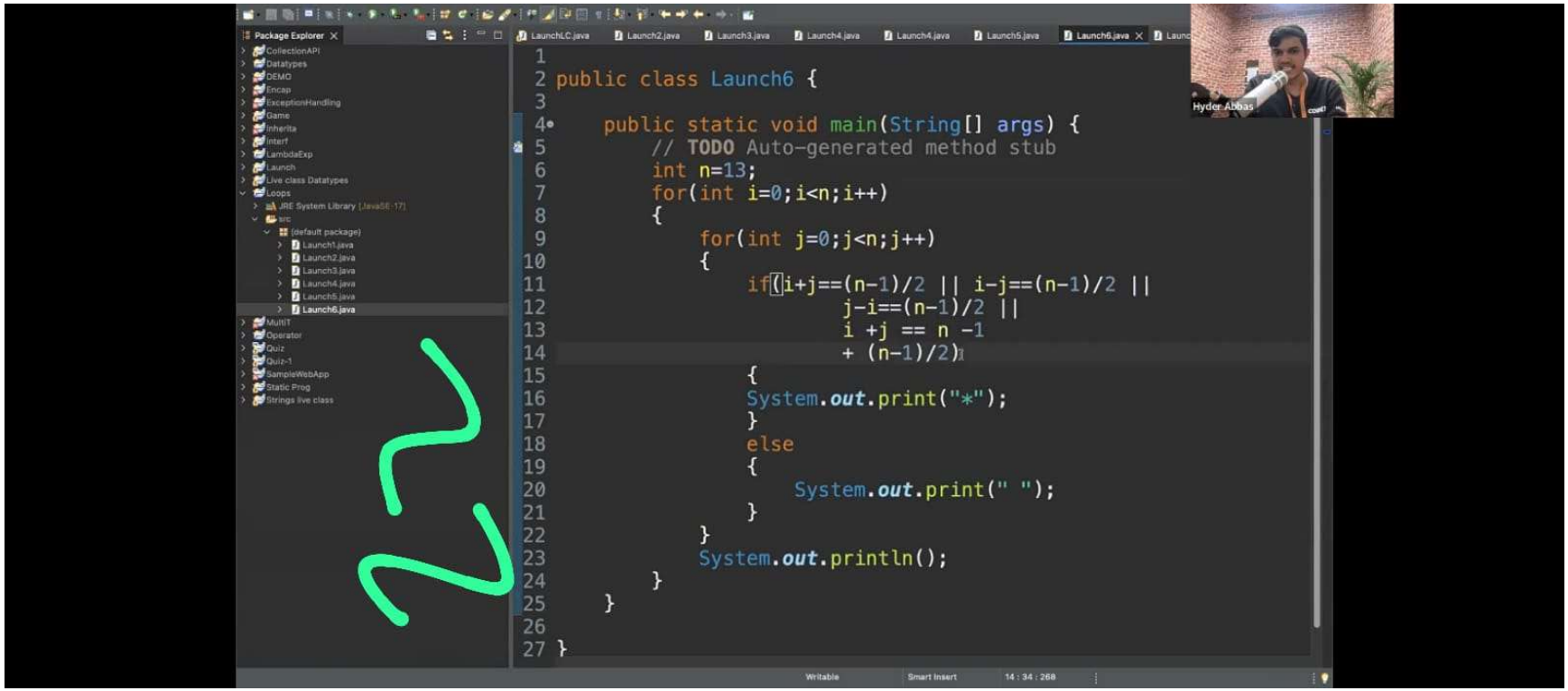
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5 int n=12;
6 for(int i=0;i<n;i++)
7 {
8 for(int j=0;j<n;j++)
9 {
10 if(j==0 ||i+j==(n-1)/2 || i-j==(n-1)/2)
11 {
12 System.out.print("*");
13 }
14 else
15 {
16 System.out.print(" ");
17 }
18 }
19 System.out.println();
20 }
21 }
22
23 }
24
25
Hyder Abbas
Writable
Smart Insert
11 : 27 : 186


Package Explorer
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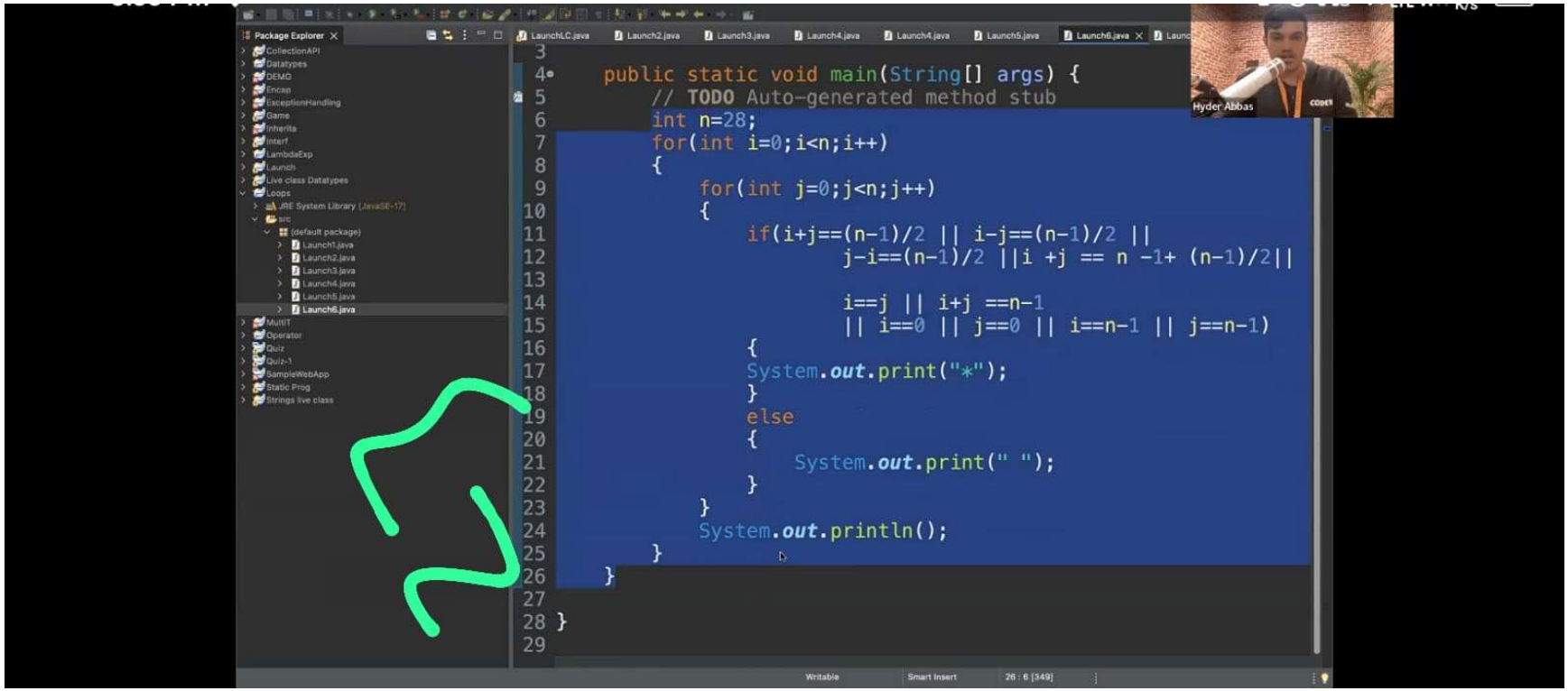
Launch4.java
Launch4.java
Launch5.java
Launch6.java
1 public class Launch6 {
2
3 public static void main(String[] args) {
4 // TODO Auto-generated method stub
5 int n=13;
6 for(int i=0;i<n;i++)
7 {
8 for(int j=0;j<n;j++)
9 {
10 if(i+j==(n-1)/2 || i-j==(n-1)/2 ||
11 j-i==(n-1)/2 ||
12 i +j == n -1
13 + (n-1)/2)
14 {
15 System.out.print("*");
16 }
17 else
18 {
19 System.out.print(" ");
20 }
21 }
22 System.out.println();
23 }
24 }
25
26 }
27
Writable
Smart Insert
14 : 34 : 268
Hyder Abbas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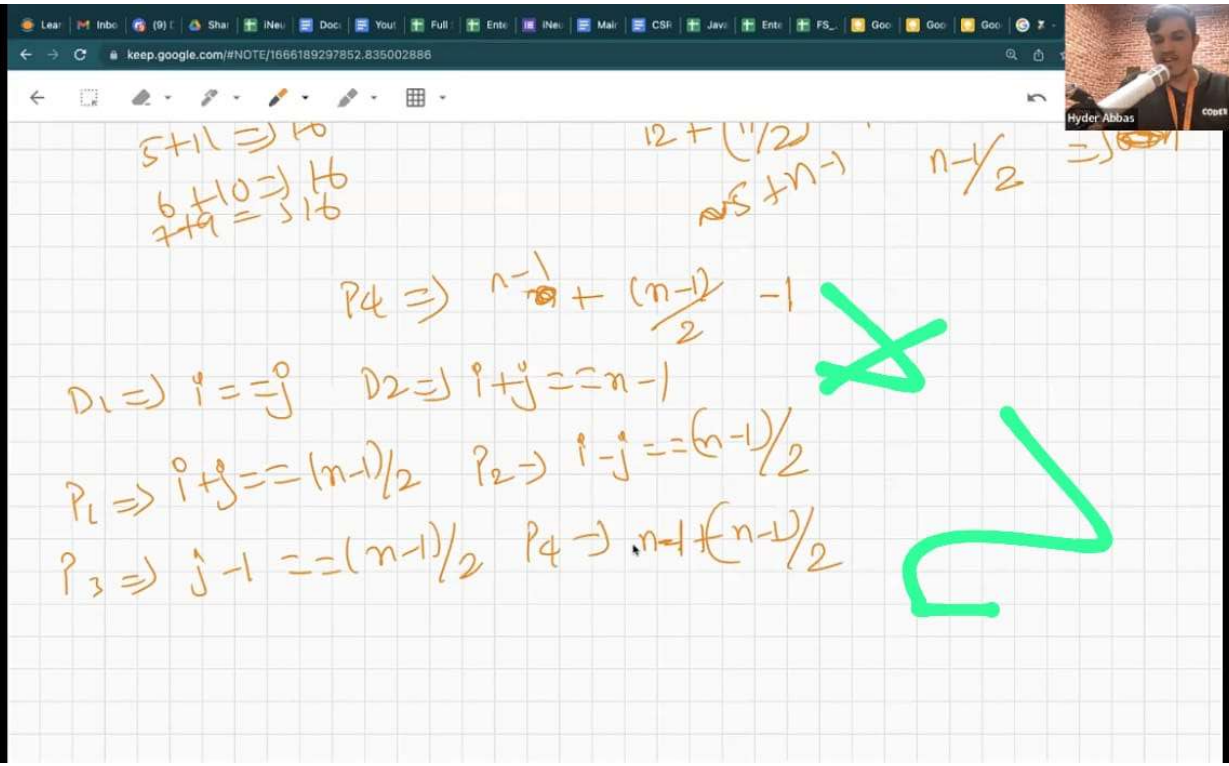
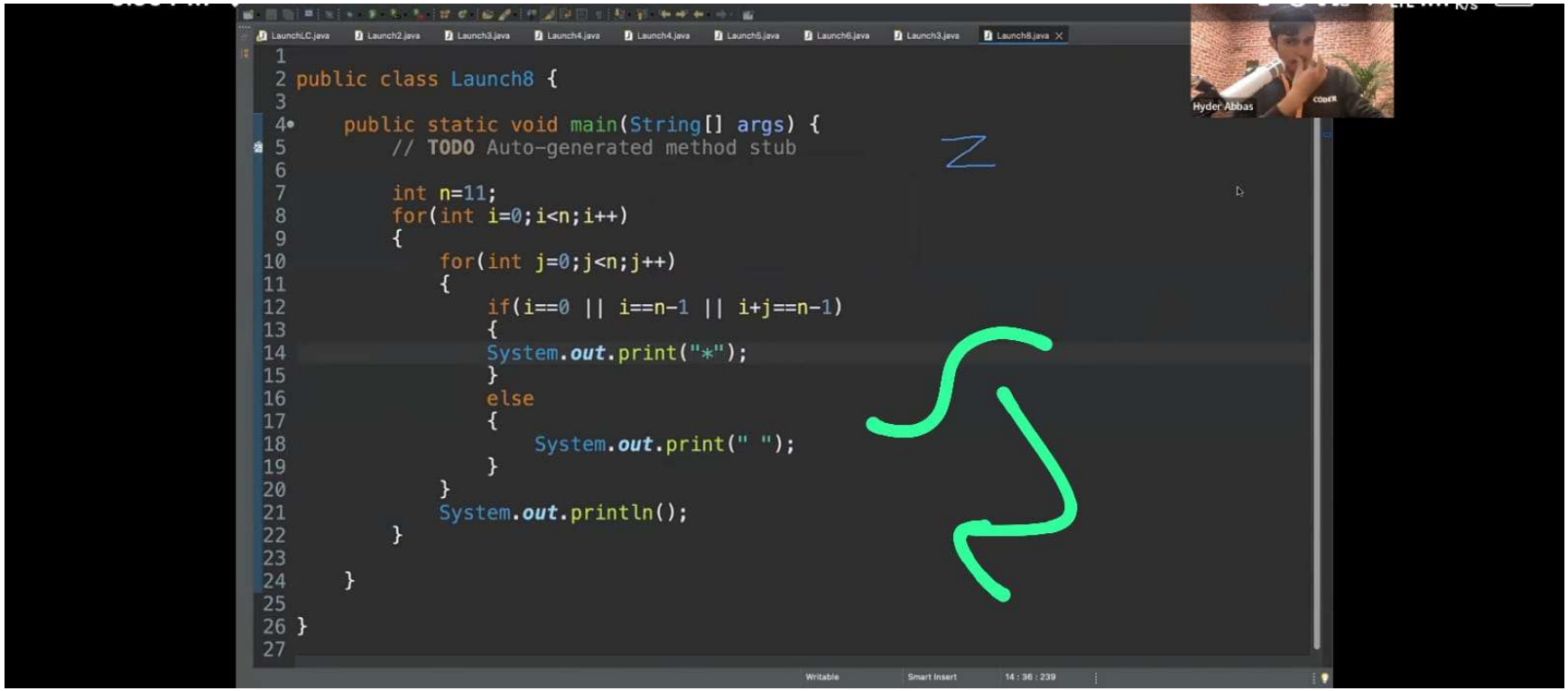
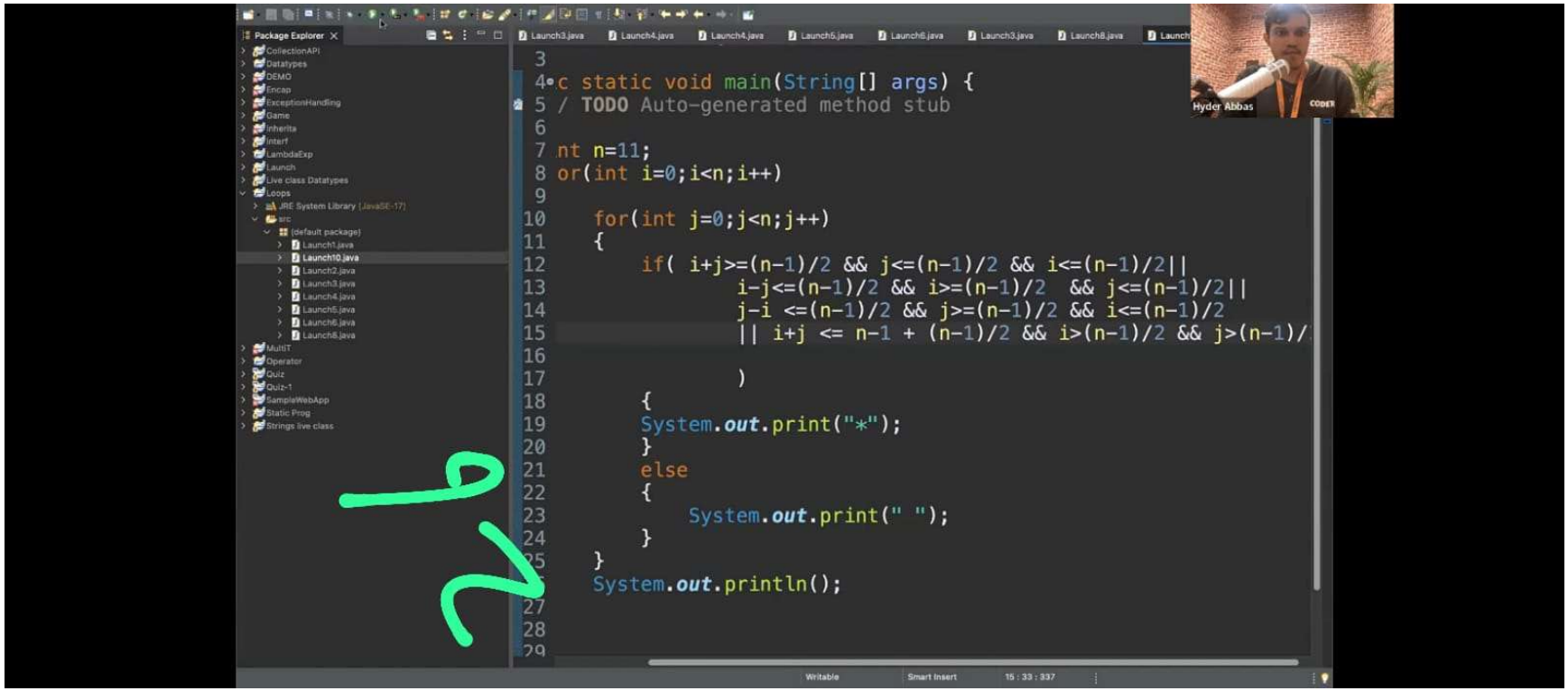
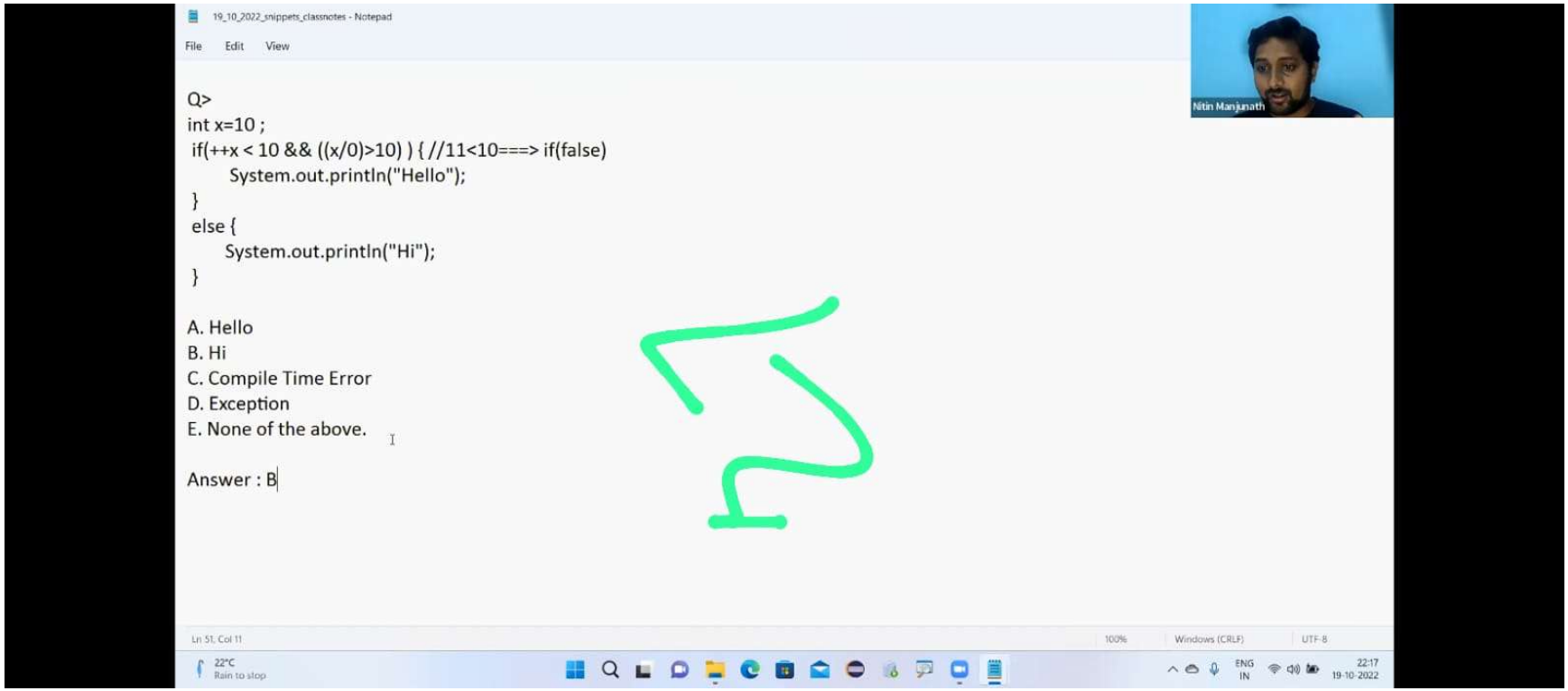
Quiz-1
SampleWebApp
Static Prog
Strings live class
LaunchLC.java
Launch2.java
Launch3.java
Launch4.java
Launch4.java
Launch5.java
Launch6.java
Hyder Abbas
public static void main(String[] args) {
// TODO Auto-generated method stub
int n=28;
for(int i=0;i<n;i++)
{
for(int j=0;j<n;j++)
{
if(i+j==(n-1)/2 || i-j==(n-1)/2 ||
j-i==(n-1)/2 ||i +j == n -1+ (n-1)/2||
i==j || i+j ==n-1
|| i==0 || j==0 || i==n-1 || j==n-1)
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
}
}
Writable
Smart Insert
26 : 6 [349]


keep.google.com/#NOTE/1666189297852.835002886
Hyder Abbas
P4 => n-1 + (n-1)/2 -1
D1 => i == j
D2 => i+j == n-1
P1 => i+j == (n-1)/2
P2 => i-j == (n-1)/2
P3 => j-1 == (n-1)/2
P4 => n-1+(n-1)/2


LaunchLC.java
Launch2.java
Launch3.java
Launch4.java
Launch4.java
Launch5.java
Launch6.java
Launch3.java
Launch8.java
public class Launch8 {
public static void main(String[] args) {
// TODO Auto-generated method stub
int n=11;
for(int i=0;i<n;i++)
{
for(int j=0;j<n;j++)
{
if(i==0 || i==n-1 || i+j==n-1)
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
}
}
Hyder Abbas
Writable
Smart Insert
14 : 36 : 239


Package Explorer
CollectionAPI
Datatypes
DEMO
Encap
ExceptionHandling
Game
Inherita
Interf
LambdaExp
Launch
Live class Datatypes
Loops
JRE System Library [JavaSE-17]
src
(default package)
Launch1.java
Launch10.java
Launch2.java
Launch3.java
Launch4.java
Launch5.java
Launch6.java
Launch8.java
MultiT
Operator
Quiz
Quiz-1
SampleWebApp
Static Prog
Strings live class
Launch3.java
Launch4.java
Launch4.java
Launch5.java
Launch6.java
Launch3.java
Launch8.java
c static void main(String[] args) {
/ TODO Auto-generated method stub
nt n=11;
or(int i=0;i<n;i++)
for(int j=0;j<n;j++)
{
if(i+j>=(n-1)/2 && j<=(n-1)/2 && i<=(n-1)/2||
i-j<=(n-1)/2 && i>=(n-1)/2 && j<=(n-1)/2||
j-i <=(n-1)/2 && j>=(n-1)/2 && i<=(n-1)/2
|| i+j <= n-1 + (n-1)/2 && i>(n-1)/2 && j>(n-1)/
)
{
System.out.print("*");
}
else
{
System.out.print(" ");
}
}
System.out.println();
Writable
Smart Insert
15 : 33 : 337
Hyder Abbas
CODER
2nd


19_10_2022_snippets_classnotes - Notepad
File Edit View
Nitin Manjunath
Q>
int x=10 ;
if(++x < 10 && ((x/0)>10)) { //11<10===> if(false)
System.out.println("Hello");
}
else {
System.out.println("Hi");
}
A. Hello
B. Hi
C. Compile Time Error
D. Exception
E. None of the above.
Answer : B
Ln 51, Col 11
100%
Windows (CRLF)
UTF-8
22°C
Rain to stop
ENG
IN
22:17
19-10-2022

19_10_2022_snippets_classnotes - Notepad

File Edit View

Nitin Manjunath

Q>
Give
int i=10;//10
int j=20;//30
int k= (j+=i)/5;// k = (j= j+i)/5
k= (j=20+10)/5
k = (j=30)/5
k= 30/5
k= 6
System.out.println(i+":"+j+":"+k);

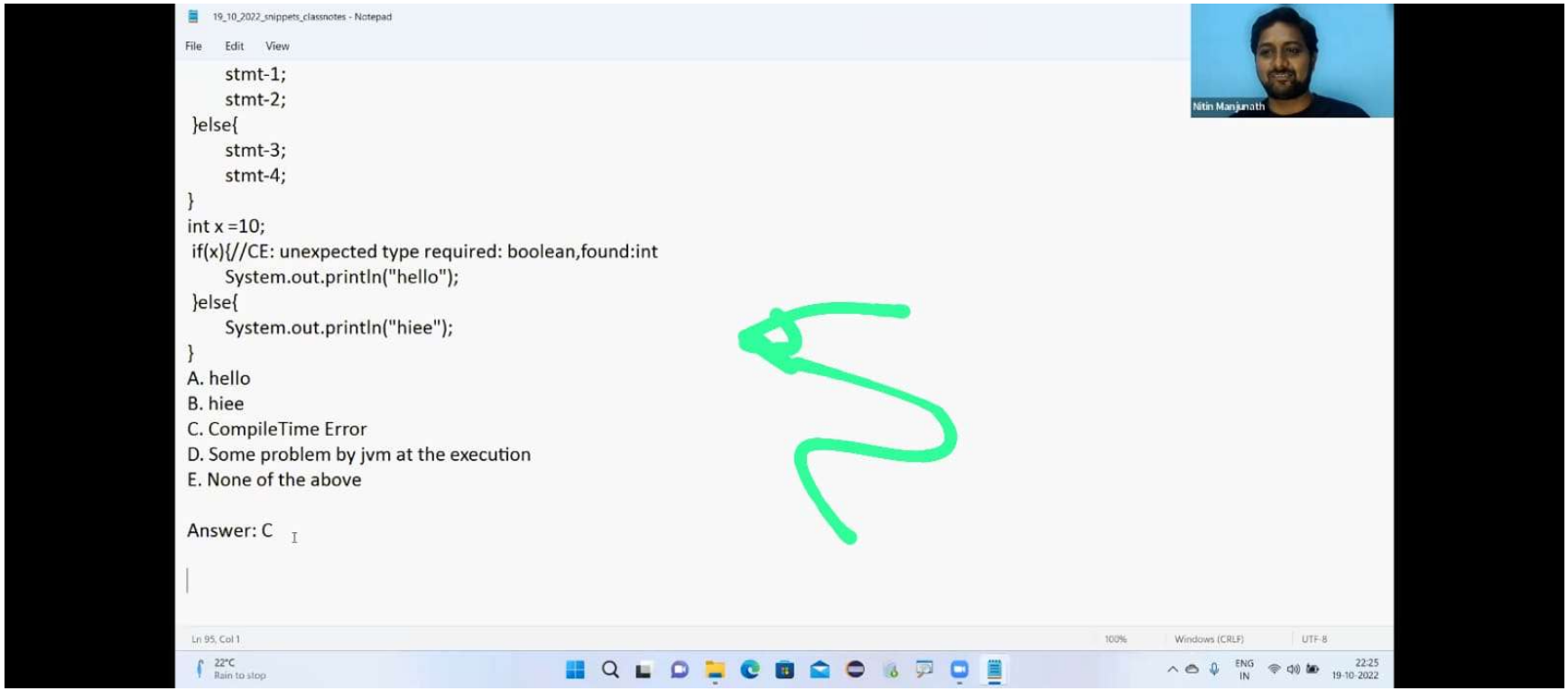
A.10:30:6
B.10:22:22
C.10:22:20
D.10:22:6

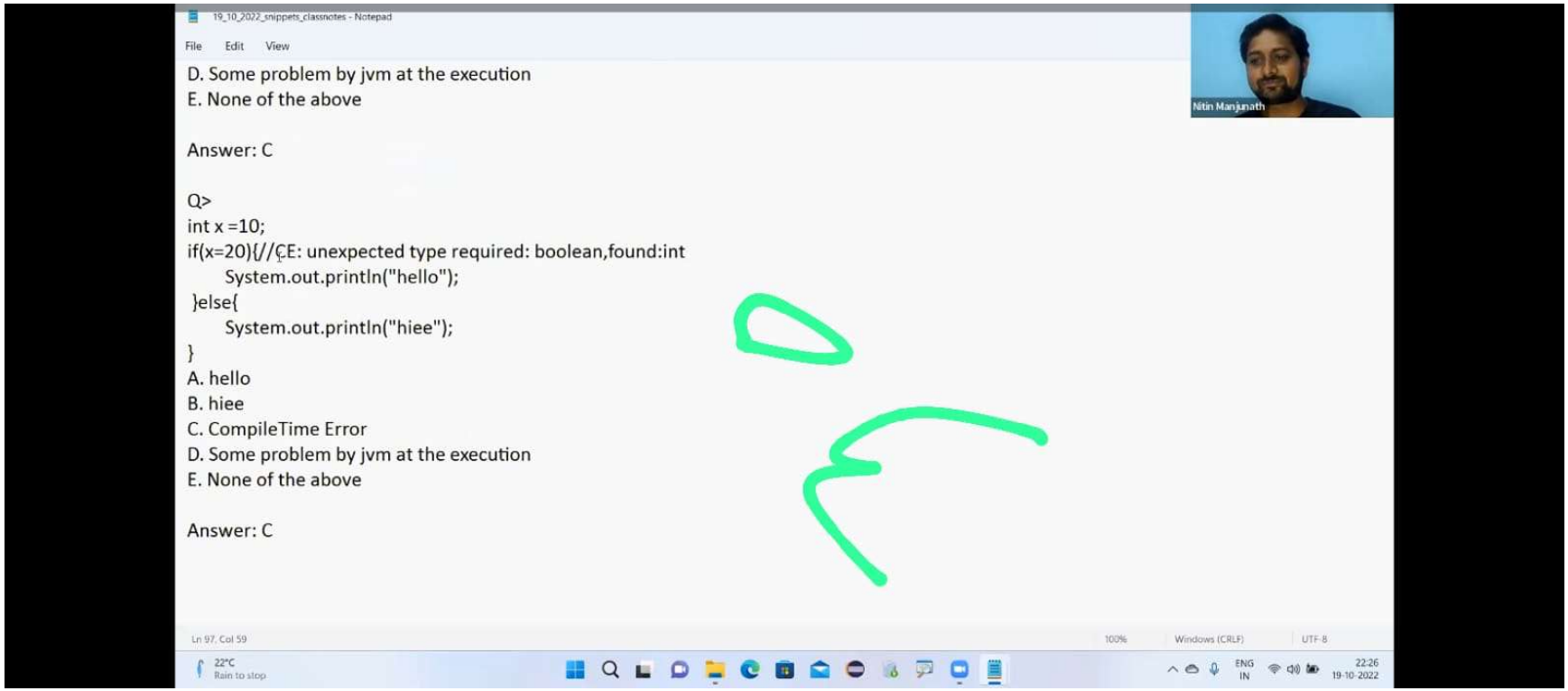
Answer : A

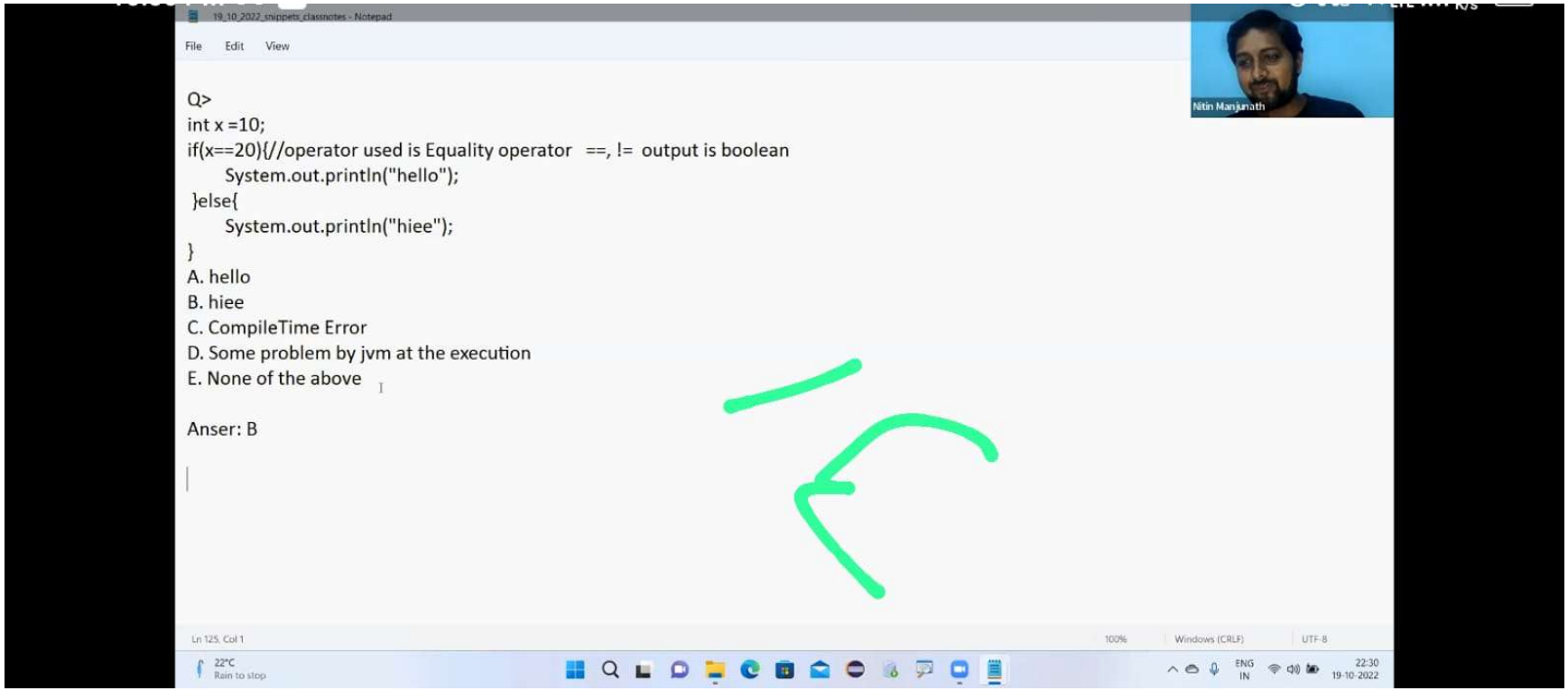
Ln 69, Col 11 100% Windows (CRLF) UTF-8

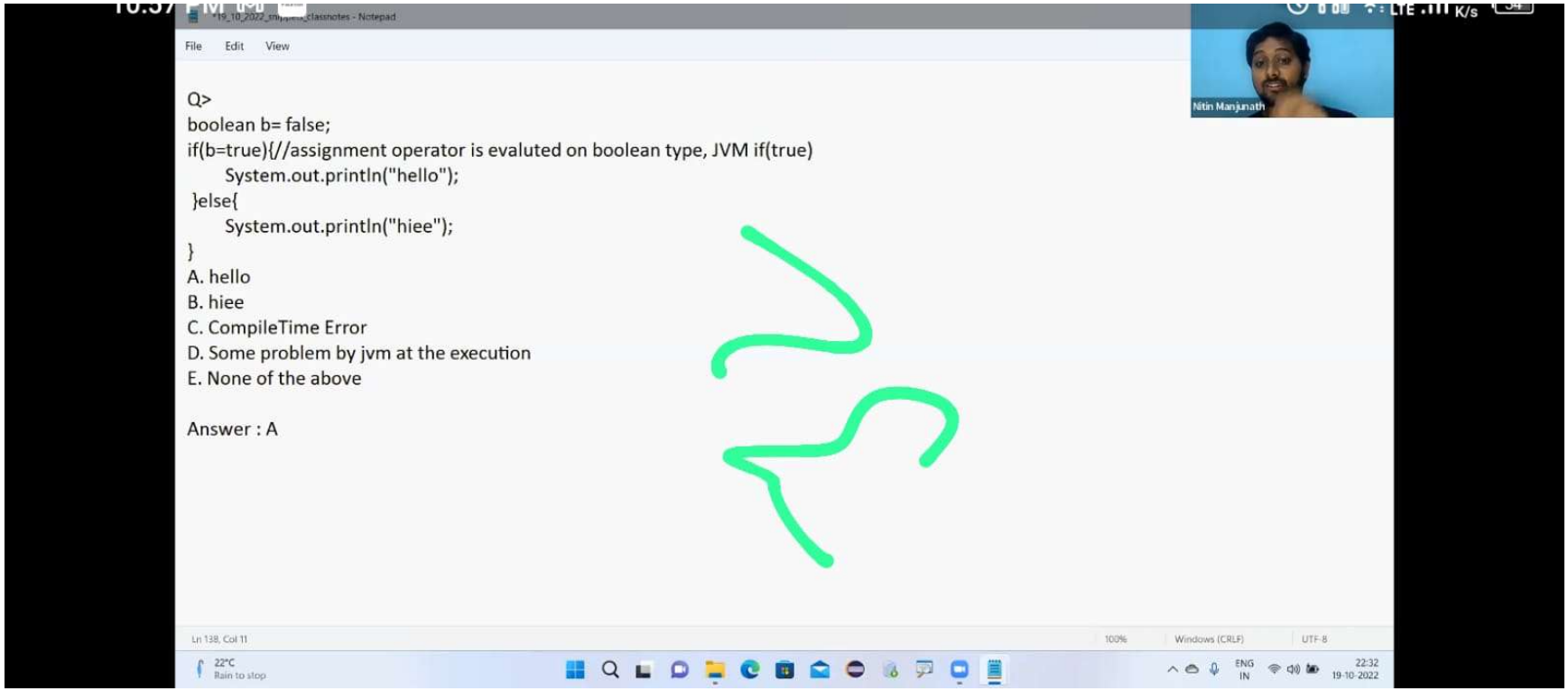
22°C Rain to stop

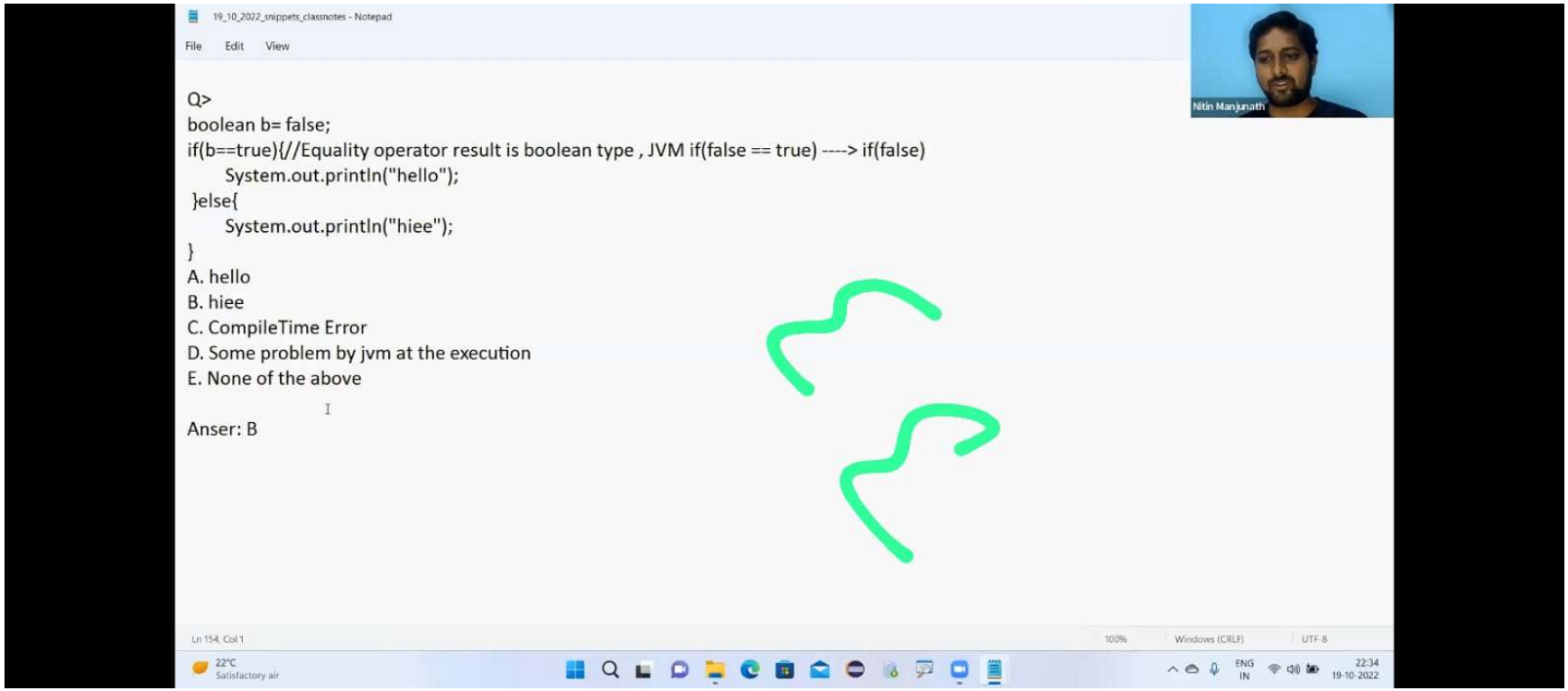
ENG IN 22:21 19-10-2022


19_10_2022_snippets_classnotes - Notepad
File Edit View
stmt-1;
stmt-2;
}else{
stmt-3;
stmt-4;
}
int x =10;
if(x){//CE: unexpected type required: boolean,found:int
System.out.println("hello");
}else{
System.out.println("hiee");
}
A. hello
B. hiee
C. CompileTime Error
D. Some problem by jvm at the execution
E. None of the above
Answer: C
Nitin Manjunath
Ln 95, Col 1
100%
Windows (CRLF)
UTF-8
22°C
Rain to stop
ENG
IN
22:25
19-10-2022


19_10_2022_snippets_classnotes - Notepad
File Edit View
D. Some problem by jvm at the execution
E. None of the above
Answer: C
Q>
int x =10;
if(x=20){//CE: unexpected type required: boolean,found:int
System.out.println("hello");
}else{
System.out.println("hiee");
}
A. hello
B. hiee
C. CompileTime Error
D. Some problem by jvm at the execution
E. None of the above
Answer: C
Nitin Manjunath
Ln 97, Col 59
100%
Windows (CRLF)
UTF-8
22°C
Rain to stop
ENG
IN
22:26
19-10-2022


19_10_2022_snippets_classnotes - Notepad
File Edit View
Nitin Manjunath
Q>
int x =10;
if(x==20){//operator used is Equality operator ==, != output is boolean
System.out.println("hello");
}else{
System.out.println("hiee");
}
A. hello
B. hiee
C. CompileTime Error
D. Some problem by jvm at the execution
E. None of the above
Anser: B
Ln 125, Col 1
100%
Windows (CRLF)
UTF-8
22°C
Rain to stop
ENG
IN
22:30
19-10-2022


File Edit View
Q>
boolean b= false;
if(b=true){//assignment operator is evaluted on boolean type, JVM if(true)
System.out.println("hello");
}else{
System.out.println("hiee");
}
A. hello
B. hiee
C. CompileTime Error
D. Some problem by jvm at the execution
E. None of the above
Answer : A
Nitin Manjunath


19_10_2022_snippets_classnotes - Notepad
File Edit View
Nitin Manjunath
Q>
boolean b= false;
if(b==true){//Equality operator result is boolean type , JVM if(false == true) ----> if(false)
System.out.println("hello");
}else{
System.out.println("hiee");
}
A. hello
B. hiee
C. CompileTime Error
D. Some problem by jvm at the execution
E. None of the above
Anser: B
Ln 154, Col 1
100%
Windows (CRLF)
UTF-8
22°C
Satisfactory air
ENG
IN
22:34
19-10-2022

*19_10_2022_snippets_classnotes - Notepad

File Edit View

Answer: B

Q>

```
if(boolean)
    stmt-1;
```

Note: if there is only statement which needs to be a part of if, then {} is optional.

```
if(true)
    System.out.println("hello");
```

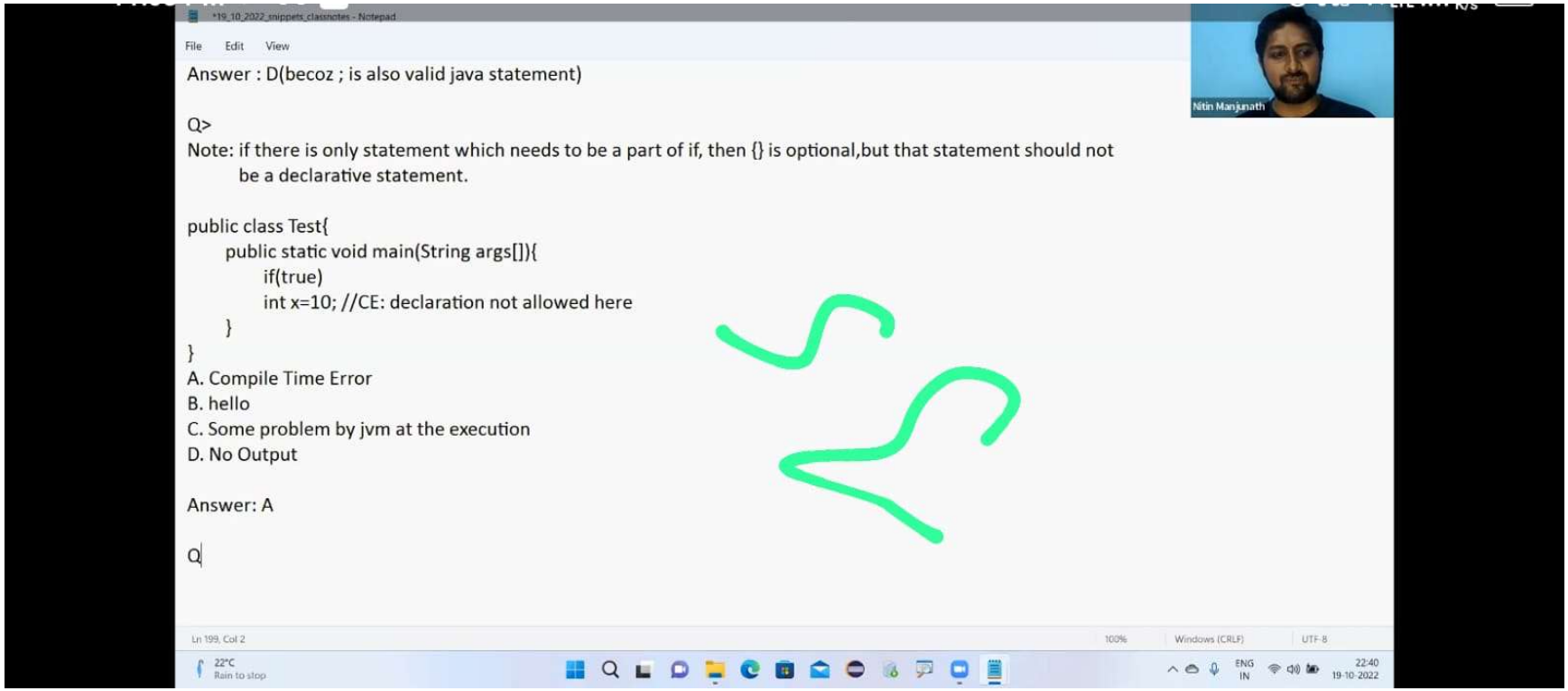
A. Compile Time Error
B. hello
C. Some problem by jvm at the execution
D. None of the above

Answer : B

Ln 168, Col 1 100% Windows (CRLF) UTF-8

22°C Rain to stop

ENG IN 22:37 19-10-2022


*19_10_2022_snippets_classnotes - Notepad
File Edit View
Answer : D(becoz ; is also valid java statement)
Q>
Note: if there is only statement which needs to be a part of if, then {} is optional,but that statement should not be a declarative statement.
public class Test{
public static void main(String args[]){
if(true)
int x=10; //CE: declaration not allowed here
}
}
A. Compile Time Error
B. hello
C. Some problem by jvm at the execution
D. No Output
Answer: A
Q
Nitin Manjunath
Ln 199, Col 2
100%
Windows (CRLF)
UTF-8
22°C
Rain to stop
ENG
IN
22:40
19-10-2022

19_10_2022_snippets_classnotes - Notepad

File Edit View

Answer: A

Q>

```
public class Test{
    public static void main(String args[]){
        if(true) {
            int x=10; //valid for compiler becoz of {}
        }
    }
}
```

A. Compile Time Error
B. hello
C. Some problem by jvm at the execution
D. No Output

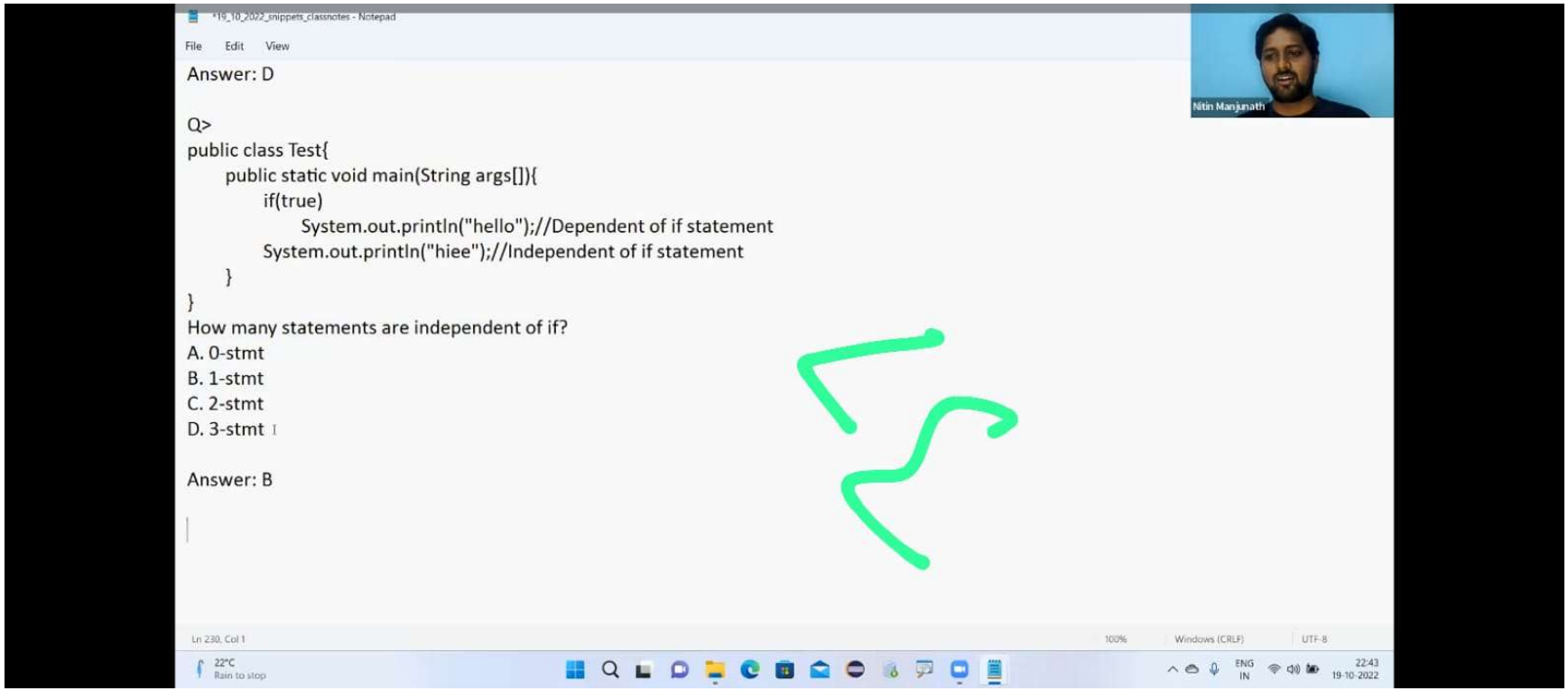
Answer: D

```
public class Test{
    public static void main(String args[]){
        if(true)
        System.out.println("hello");
```

Ln 212, Col 10 100% Windows (CRLF) UTF-8

22°C Rain to stop

ENG IN 22:41 19-10-2022


*19_10_2022_snippets_classnotes - Notepad
File Edit View
Answer: D
Q>
public class Test{
public static void main(String args[]){
if(true)
System.out.println("hello");//Dependent of if statement
System.out.println("hiee");//Independent of if statement
}
}
How many statements are independent of if?
A. 0-stmt
B. 1-stmt
C. 2-stmt
D. 3-stmt
Answer: B
Nitin Manjunath
Ln 230, Col 1
100%
Windows (CRLF)
UTF-8
22°C
Rain to stop
ENG
IN
22:43
19-10-2022