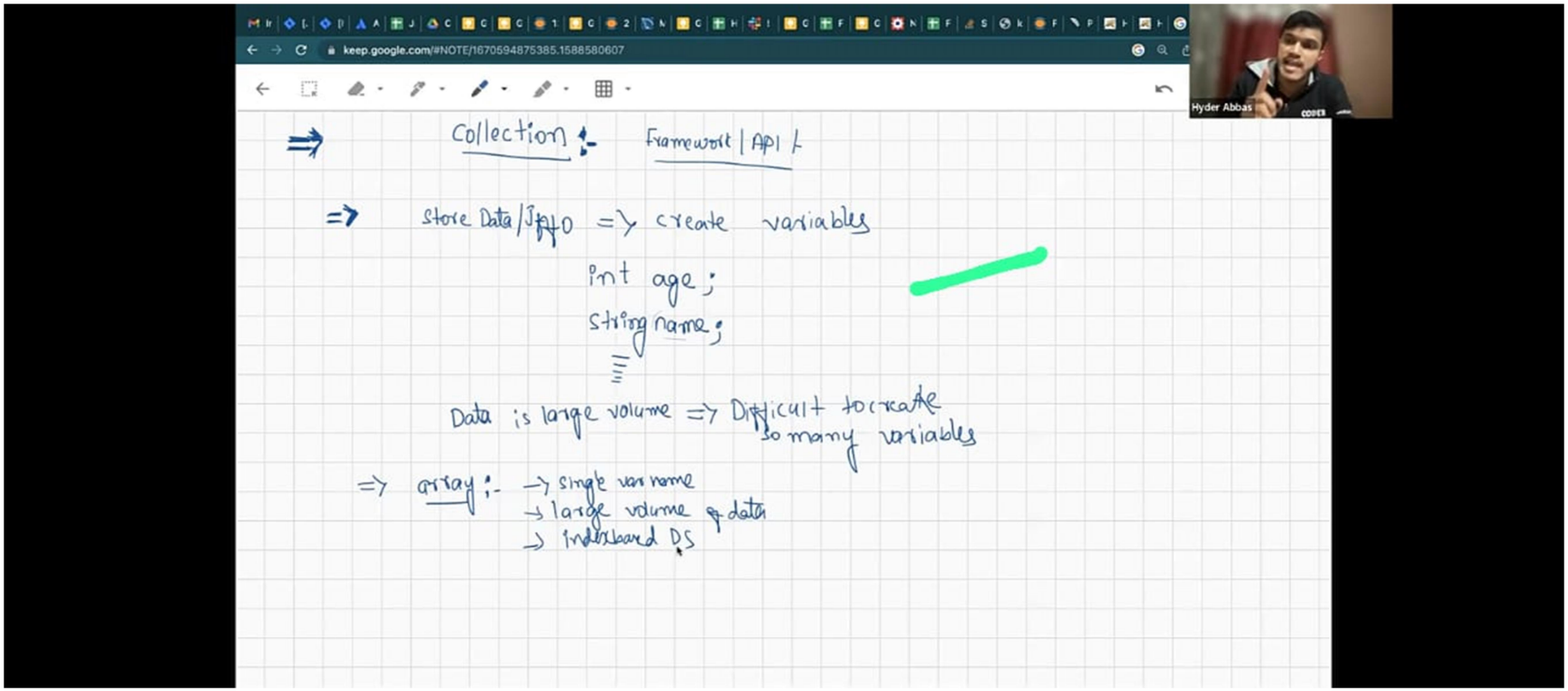
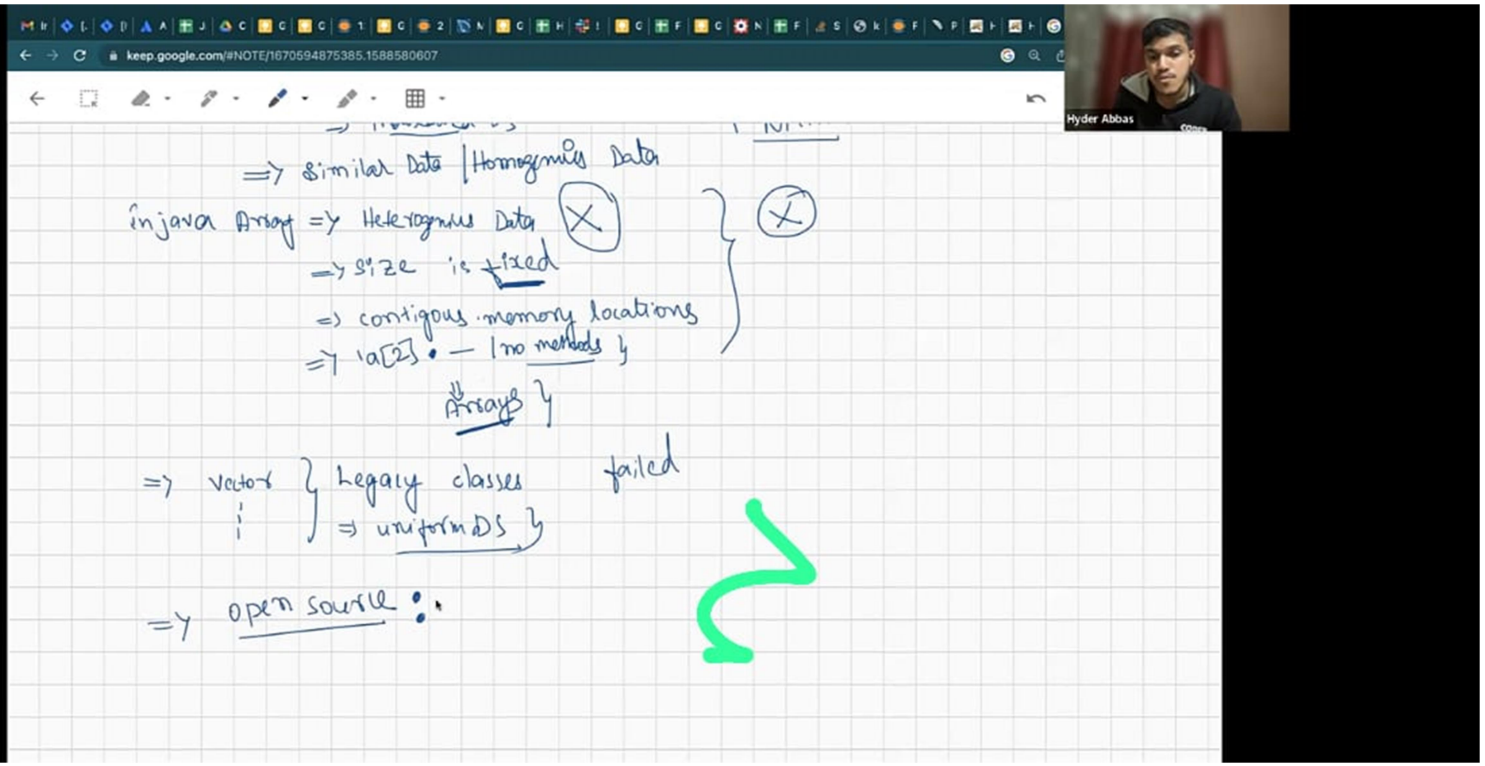
Java Collection Part-1

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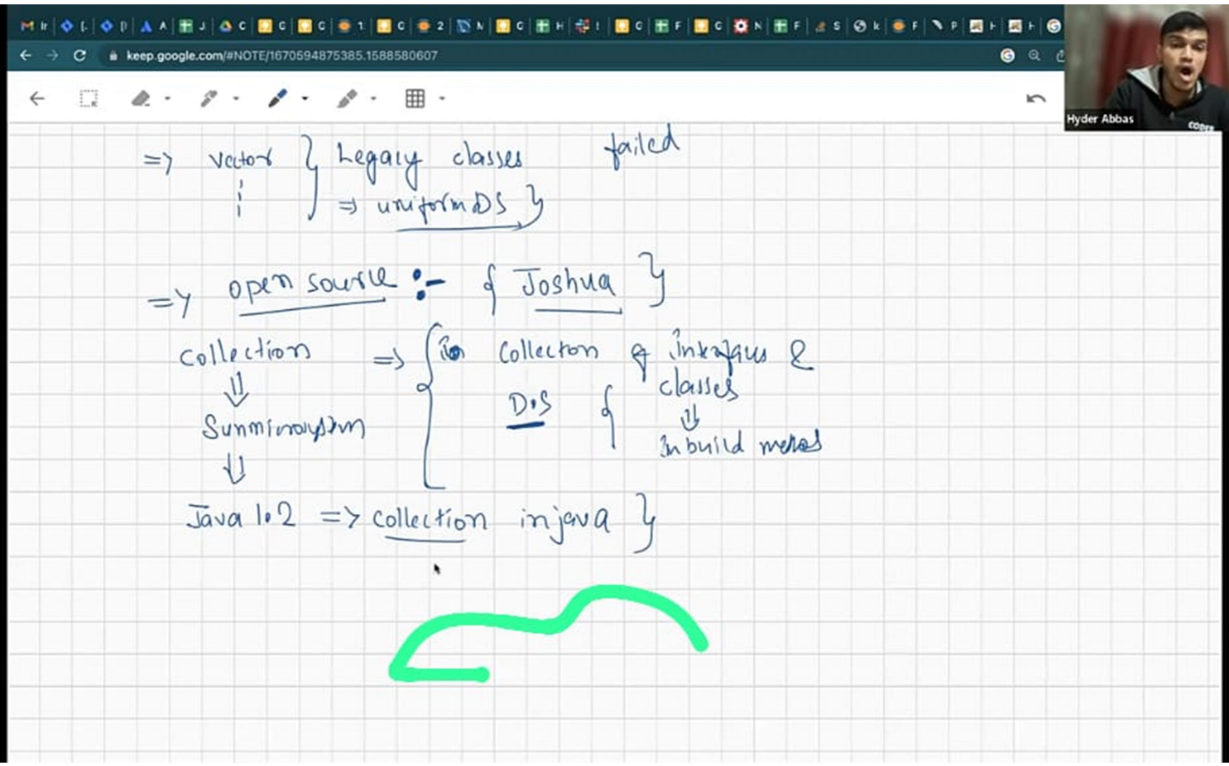
=> similar Data | Homogenius Data
in java Array => Heterogenius Data
=> size is fixed
=> contigous memory locations
=> la[2]; — | no methods }
Arrays }
=> vector } Legaly classes
=> uniform DS }
failed
=> open source !!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=> vector } Legacy classes failed
=> uniform DS }
=> open source :- { Joshua }
collections
Summarization
Java 1.2 => collection in java }
=> for collection & interfaces & classes
DS
Inbuild methods
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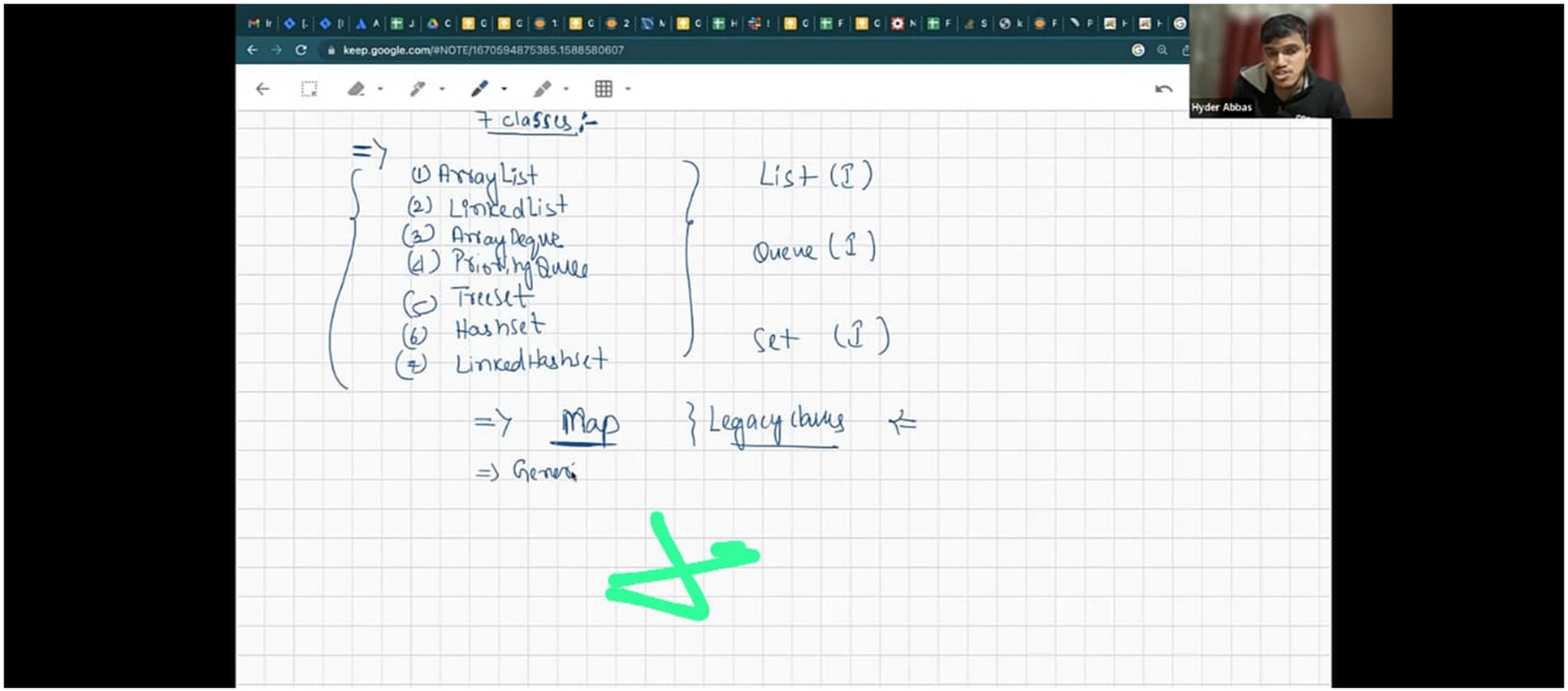
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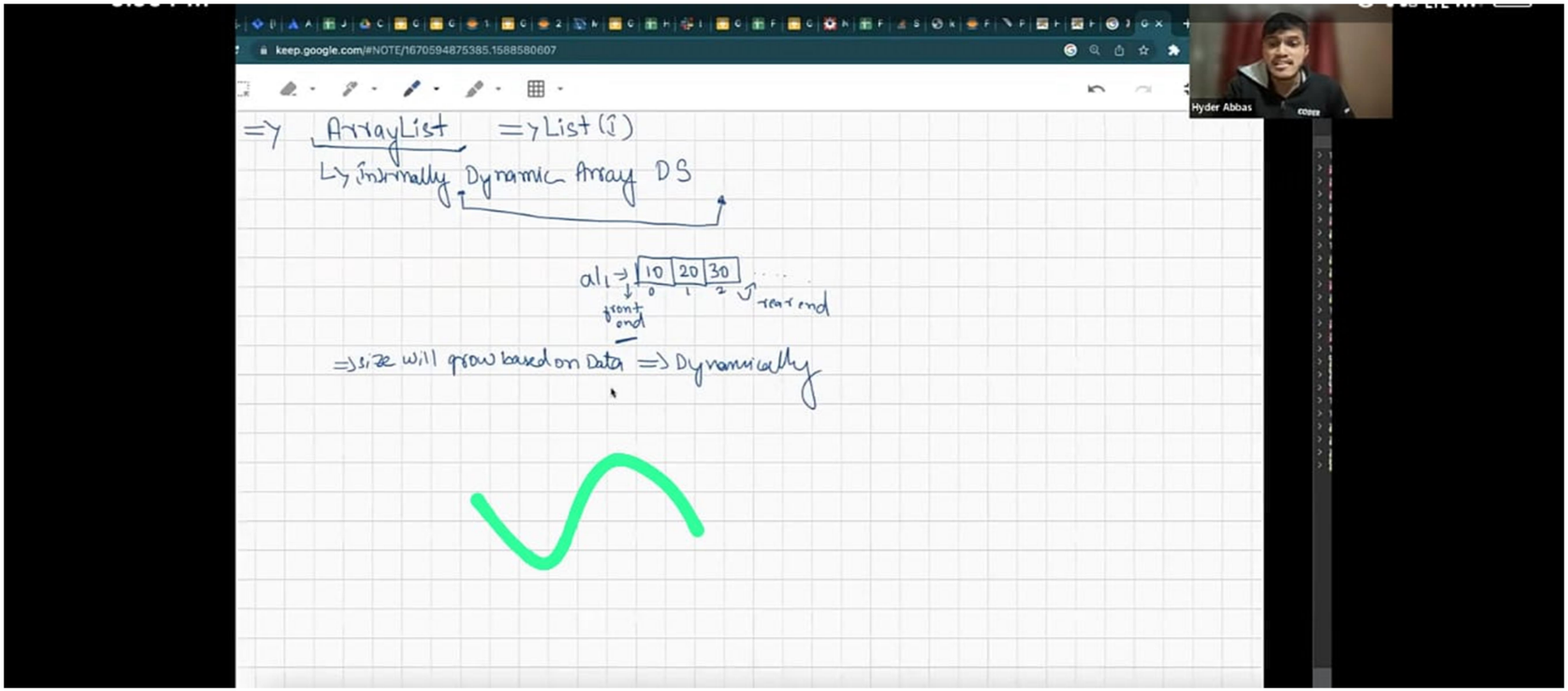
7 classes :-
=>
(1) ArrayList
(2) LinkedList
(3) ArrayDeque
(4) PriorityQueue
(5) TreeSet
(6) HashSet
(7) LinkedHashSet
List (I)
Queue (I)
Set (I)
=> Map
Legacy class
=> Gener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=> ArrayList => List (I)
Ly Internally Dynamic Array DS
al1 -> 10 20 30
0 1 2
front end
rear end
=> size will grow based on Data => Dynamically
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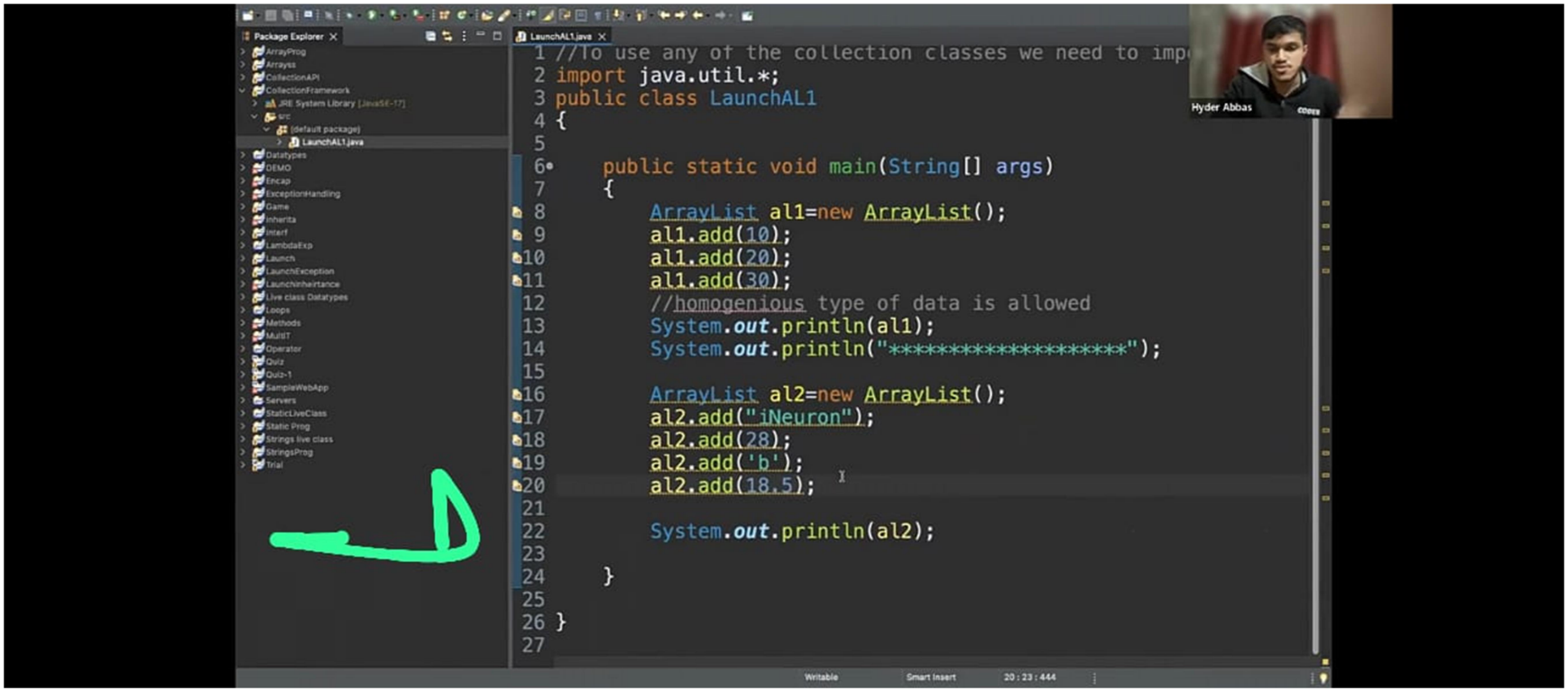
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Servers
StaticLiveClass
Static Prog
Strings live class
StringsProg
Trial
LaunchAL1.java
1 //To use any of the collection classes we need to imp
2 import java.util.*;
3 public class LaunchAL1
4 {
5
6 public static void main(String[] args)
7 {
8 ArrayList al1=new ArrayList();
9 al1.add(10);
10 al1.add(20);
11 al1.add(30);
12 //homogenious type of data is allowed
13 System.out.println(al1);
14 System.out.println("********************");
15
16 ArrayList al2=new ArrayList();
17 al2.add("iNeuron");
18 al2.add(28);
19 al2.add('b');
20 al2.add(18.5);
21
22 System.out.println(al2);
23
24 }
25
26 }
27
Writable
Smart Insert
20 : 23 : 444
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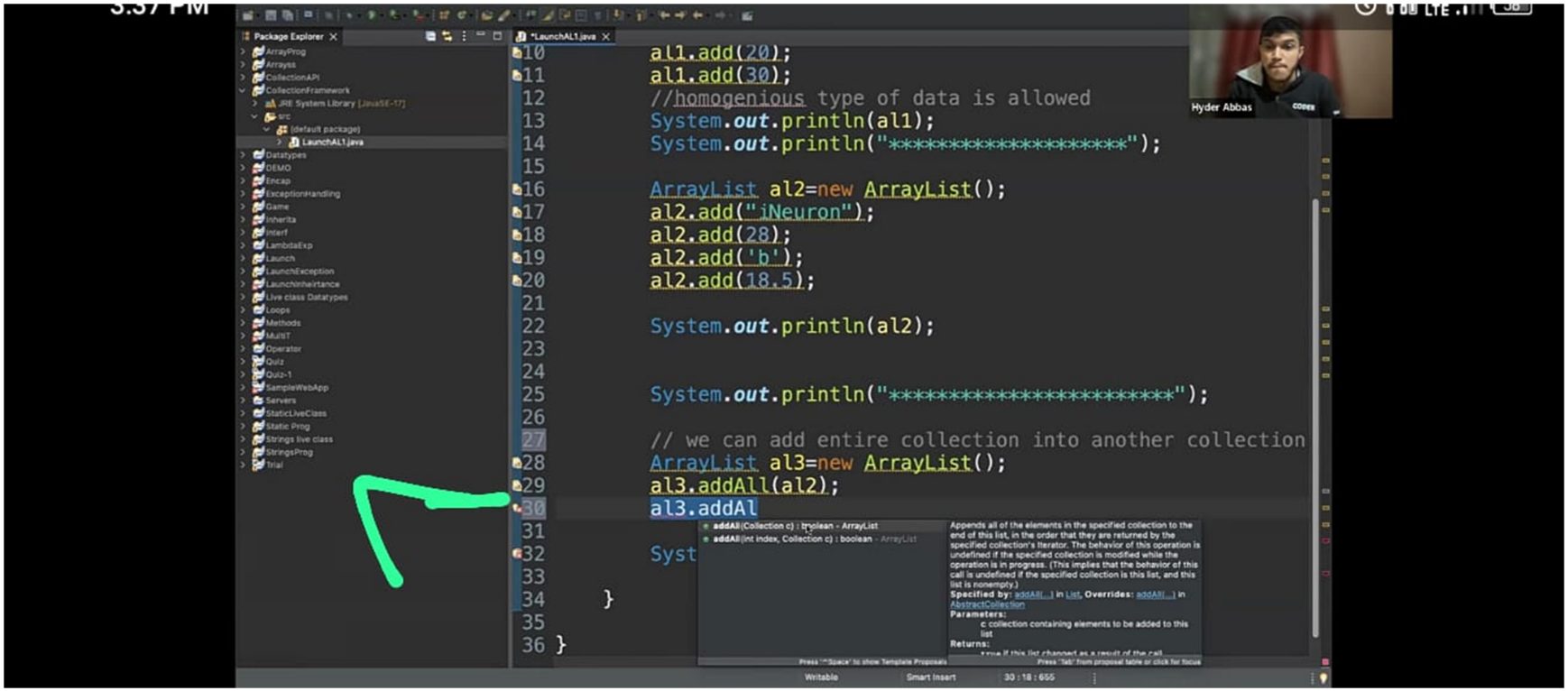
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StringsProg
Trial
*LaunchAL1.java
al1.add(20);
al1.add(30);
//homogenious type of data is allowed
System.out.println(al1);
System.out.println("**********");
ArrayList al2=new ArrayList();
al2.add("iNeuron");
al2.add(28);
al2.add('b');
al2.add(18.5);
System.out.println(al2);
System.out.println("**********");
// we can add entire collection into another collection
ArrayList al3=new ArrayList();
al3.addAll(al2);
al3.addAl
addAll(Collection c) : boolean - ArrayList
addAll(int index, Collection c) : boolean - ArrayList
Appends all of the elements in the specified collection to the end of this list, in the order that they are returned by the specified collection's Iterator. The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (This implies that the behavior of this call is undefined if the specified collection is this list, and this list is nonempty.)
Specified by: addAll(...) in List, Overrides: addAll(...) in AbstractCollection
Parameters:
c collection containing elements to be added to this list
Returns:
Press '^Space' to show Template Proposals
Press 'Tab' from proposal table or click for focus
Writable
Smart Insert
30 : 18 : 655
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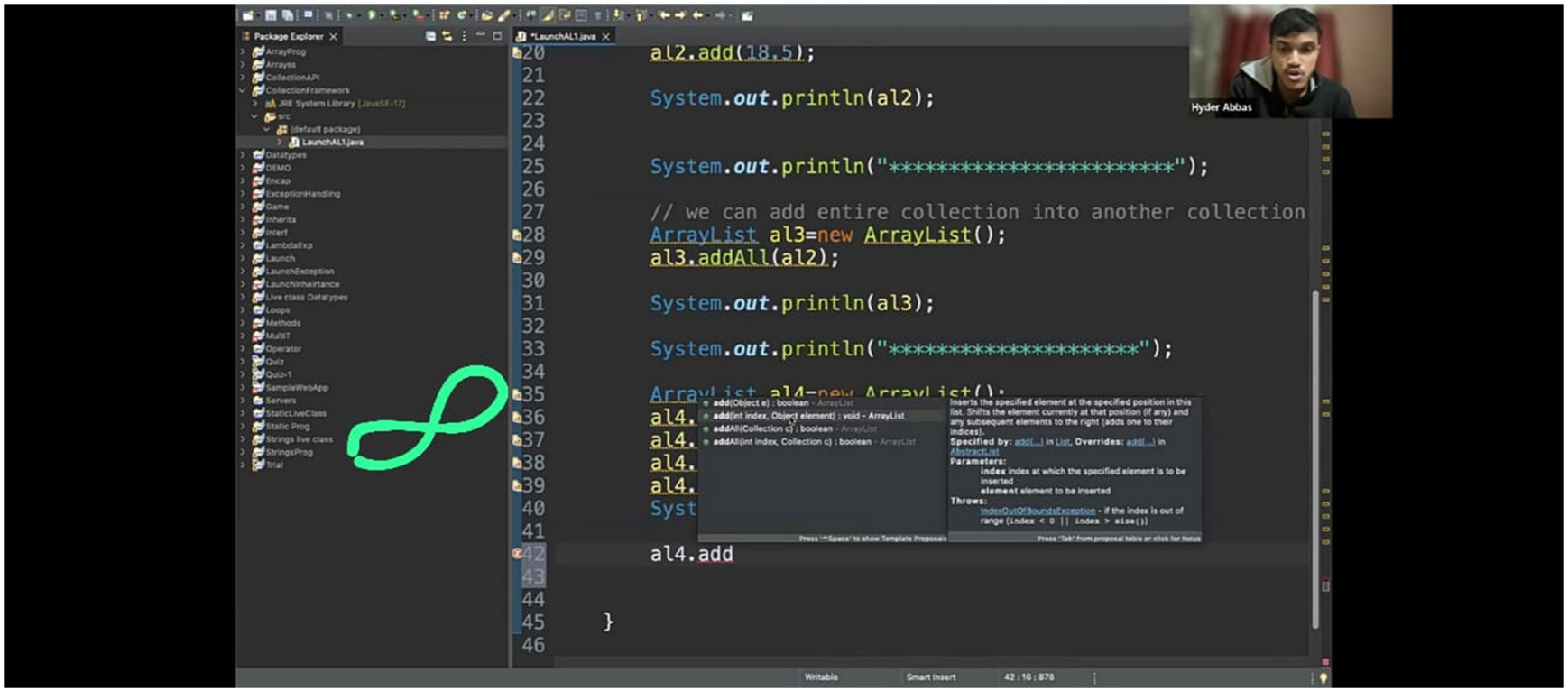
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StringsProg
Trial
*LaunchAL1.java
al2.add(18.5);
System.out.println(al2);
System.out.println("**********");
// we can add entire collection into another collection
ArrayList al3=new ArrayList();
al3.addAll(al2);
System.out.println(al3);
System.out.println("**********");
al4.add
}
add(Object e) : boolean - ArrayList
add(int index, Object element) : void - ArrayList
addAll(Collection c) : boolean - ArrayList
addAll(int index, Collection c) : boolean - ArrayList
Inserts the specified element at the specified position in this list. Shifts the element currently at that position (if any) and any subsequent elements to the right (adds one to their indices).
Specified by: add(...) in List, Overrides: add(...) in AbstractList
Parameters:
index index at which the specified element is to be inserted
element element to be inserted
Throws:
IndexOutOfBoundsException - if the index is out of range (index < 0 || index > size())
Writable
Smart Insert
42 : 16 : 878
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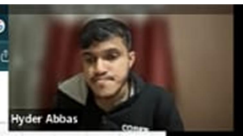


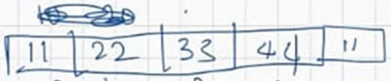
⇒ size increasing

⇒ we are able to add object in Arraylist at any given index

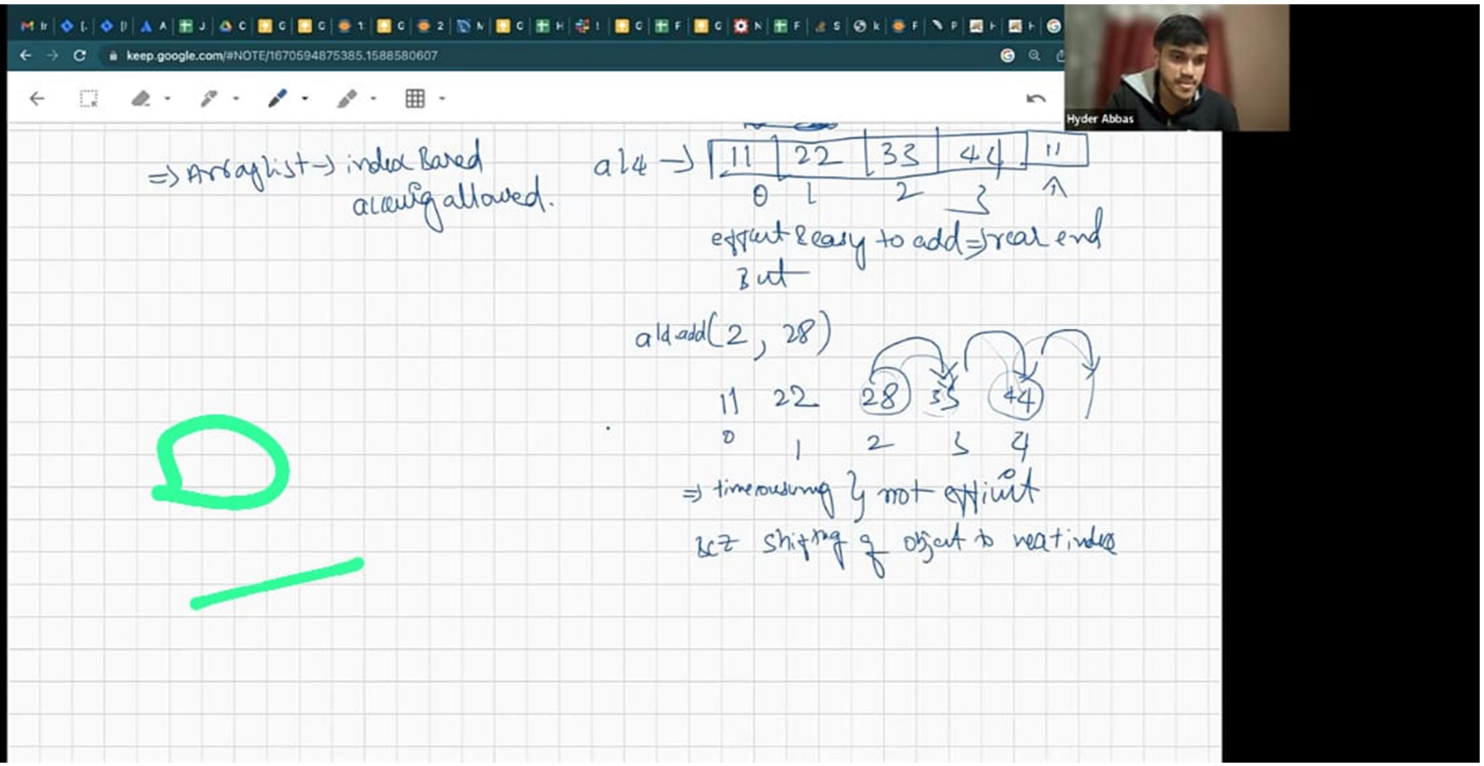
⇒ front ⌊ (X) not recomded

⇒ middle(index) ⌊ (X) not recomded

⇒ real ⌊



effort & easy to add, real end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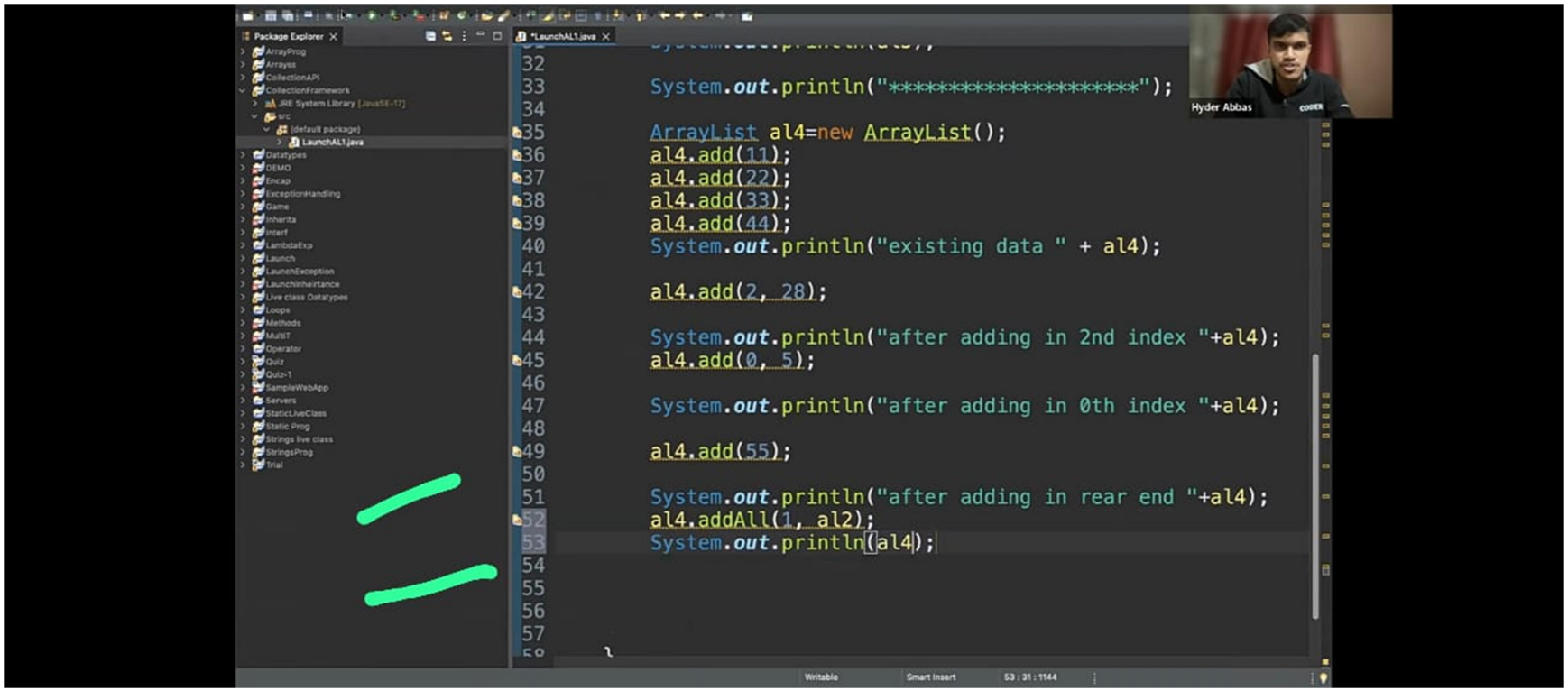
=> Arraylist -> index based accessing allowed.
al4 -> 11 22 33 44 11
0 1 2 3
effort & easy to add => rear end
But
al4.add(2, 28)
11 22 28 35 44
0 1 2 3 4
=> time consuming & not efficient
bz shifting of object to next index


Package Explorer
*LaunchAL1.java
System.out.println("**********");
ArrayList al4=new ArrayList();
al4.add(11);
al4.add(22);
al4.add(33);
al4.add(44);
System.out.println("existing data " + al4);
al4.add(2, 28);
System.out.println("after adding in 2nd index "+al4);
al4.add(0, 5);
System.out.println("after adding in 0th index "+al4);
al4.add(55);
System.out.println("after adding in rear end "+al4);
al4.addAll(1, al2);
System.out.println(al4);
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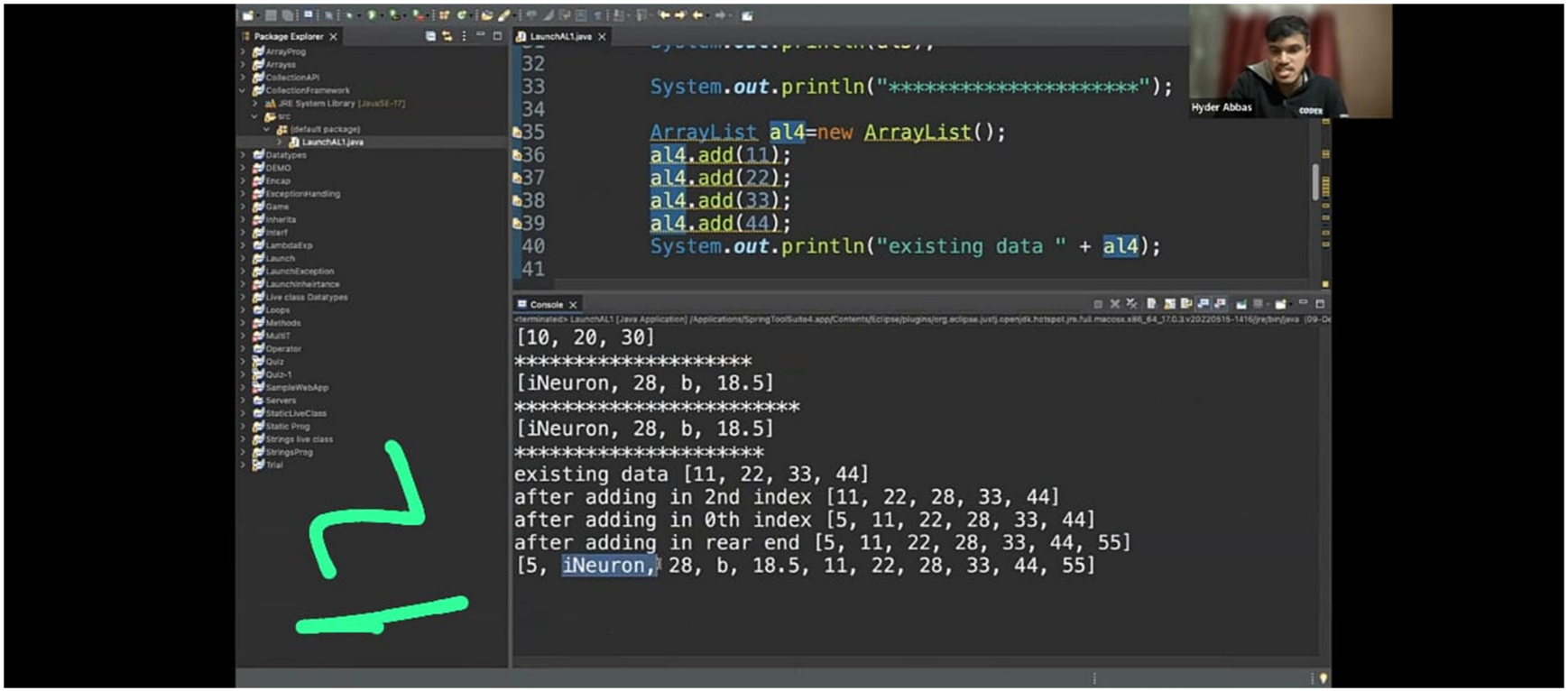
Writable
Smart Insert
53 : 31 : 1144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LaunchAL1.java
System.out.println("**********");
ArrayList al4=new ArrayList();
al4.add(11);
al4.add(22);
al4.add(33);
al4.add(44);
System.out.println("existing data " + al4);
Console
[10, 20, 30]
****
[iNeuron, 28, b, 18.5]
****
[iNeuron, 28, b, 18.5]
****
existing data [11, 22, 33, 44]
after adding in 2nd index [11, 22, 28, 33, 44]
after adding in 0th index [5, 11, 22, 28, 33, 44]
after adding in rear end [5, 11, 22, 28, 33, 44, 55]
[5, iNeuron, 28, b, 18.5, 11, 22, 28, 33, 44, 55]
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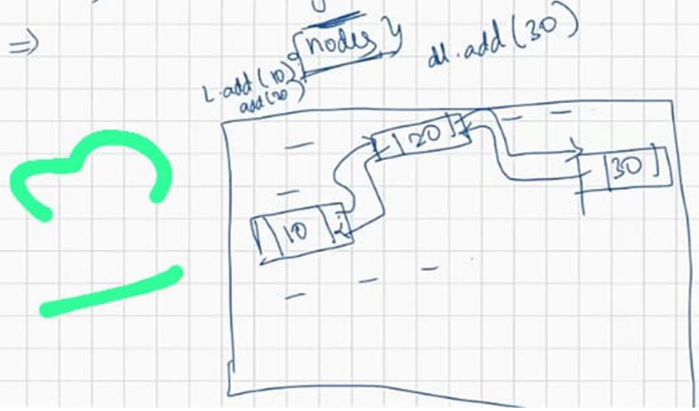
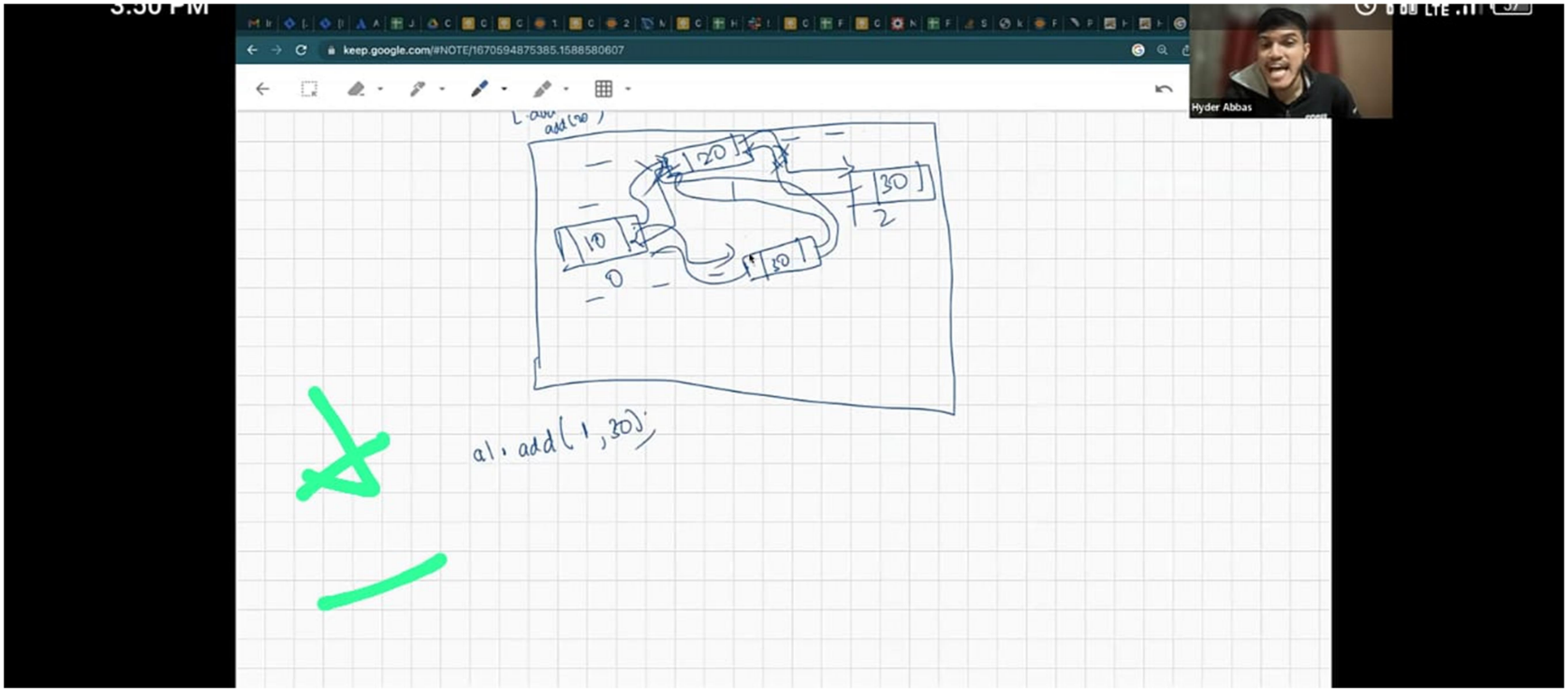
(List & Queue) 2cz shifting of object to next index

=> LinkedList => (doubly Linked List DS)

- Homogenous Data
- Heterogenous Data
- stored as Object

=>

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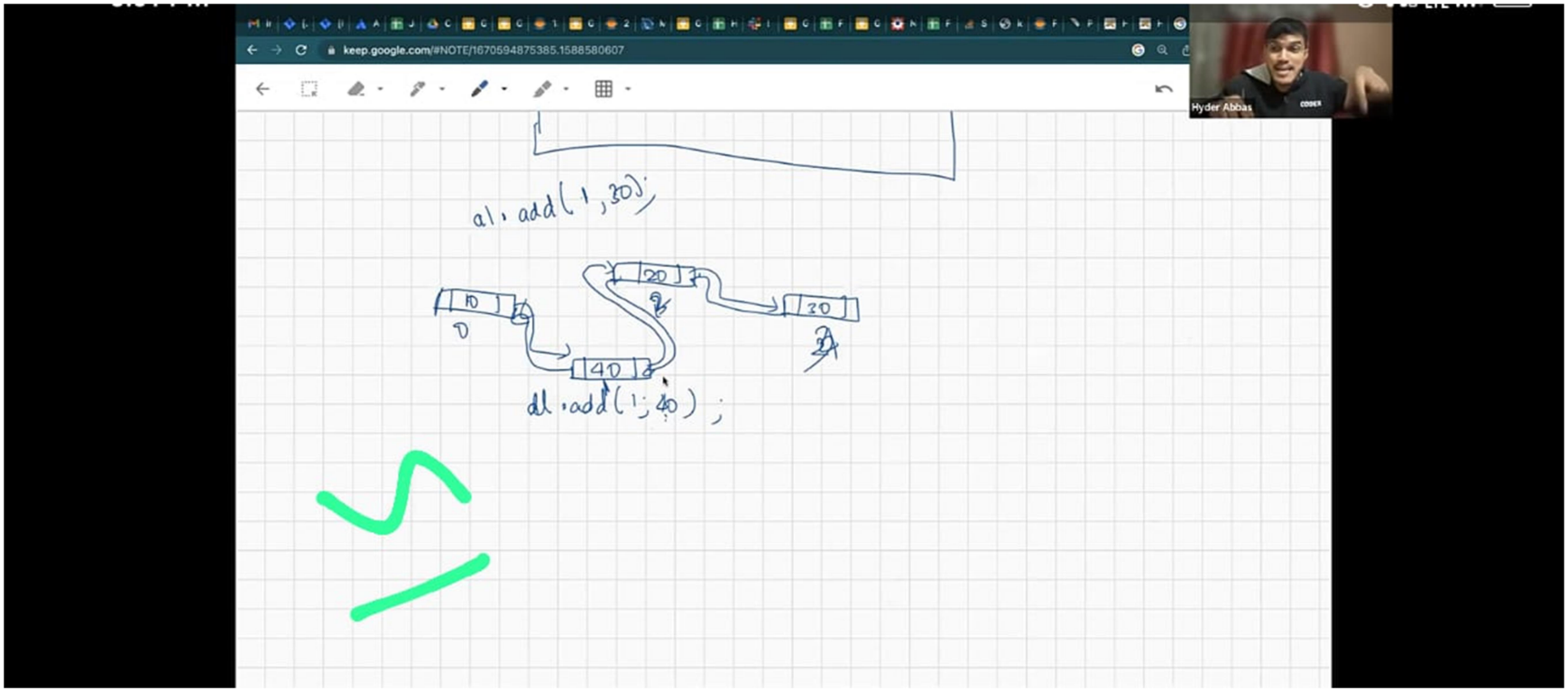
20
30
10
40
0
2
a1.add(1,30);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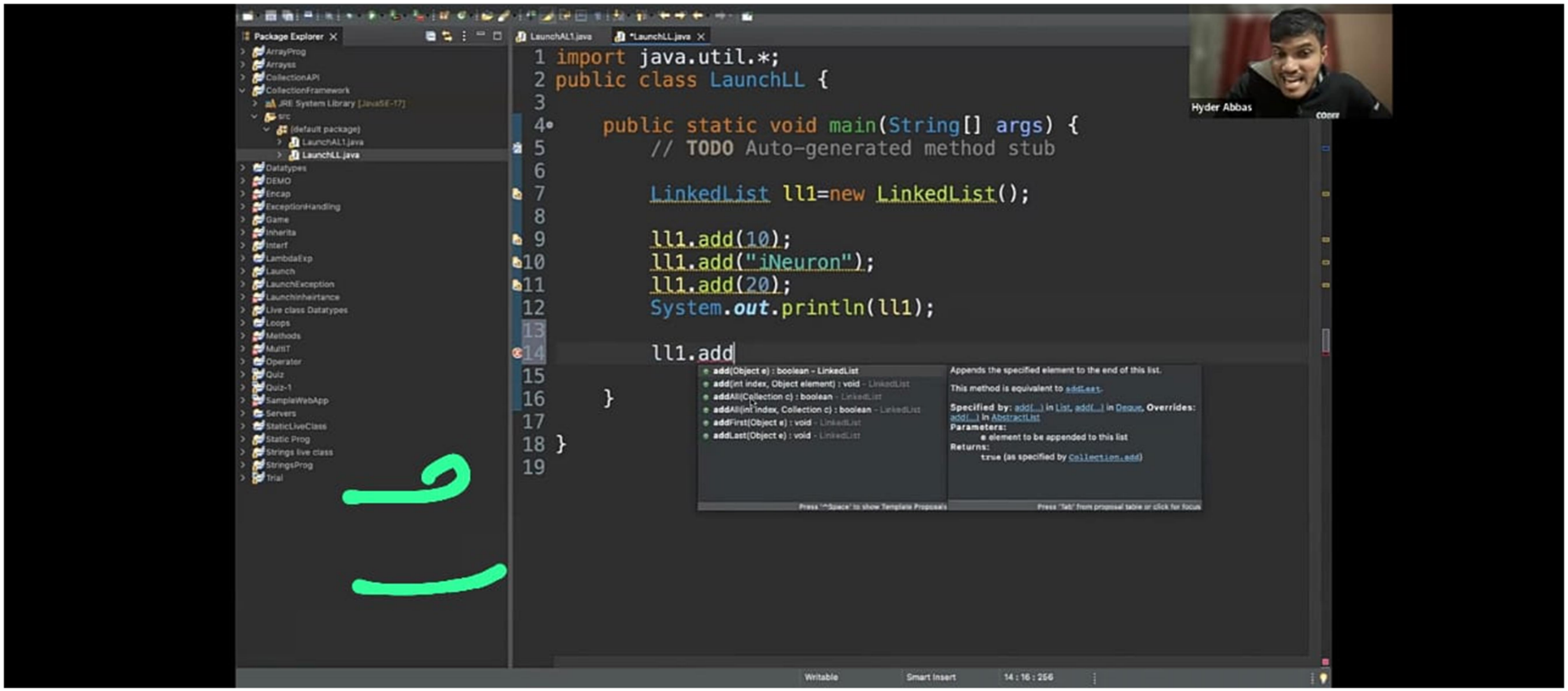
CODER
al.add(1,30);
10
20
30
40
dl.add(1,40);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StringsProg
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LaunchAL1.java
*LaunchLL.java
1 import java.util.*;
2 public class LaunchLL {
3
4 public static void main(String[] args) {
5 // TODO Auto-generated method stub
6
7 LinkedList ll1=new LinkedList();
8
9 ll1.add(10);
10 ll1.add("iNeuron");
11 ll1.add(20);
12 System.out.println(ll1);
13
14 ll1.add
15
16 }
17
18 }
19
add(Object e) : boolean - LinkedList
add(int index, Object element) : void - LinkedList
addAll(Collection c) : boolean - LinkedList
addAll(int index, Collection c) : boolean - LinkedList
addFirst(Object e) : void - LinkedList
addLast(Object e) : void - LinkedList
Appends the specified element to the end of this list.
This method is equivalent to addLast.
Specified by: add(...) in List, add(...) in Deque, Overrides: add(...) in AbstractList
Parameters:
e element to be appended to this list
Returns:
true (as specified by Collection.add)
Press '^Space' to show Template Proposals
Press 'Tab' from proposal table or click for focus
Writable
Smart Insert
14 : 16 : 256
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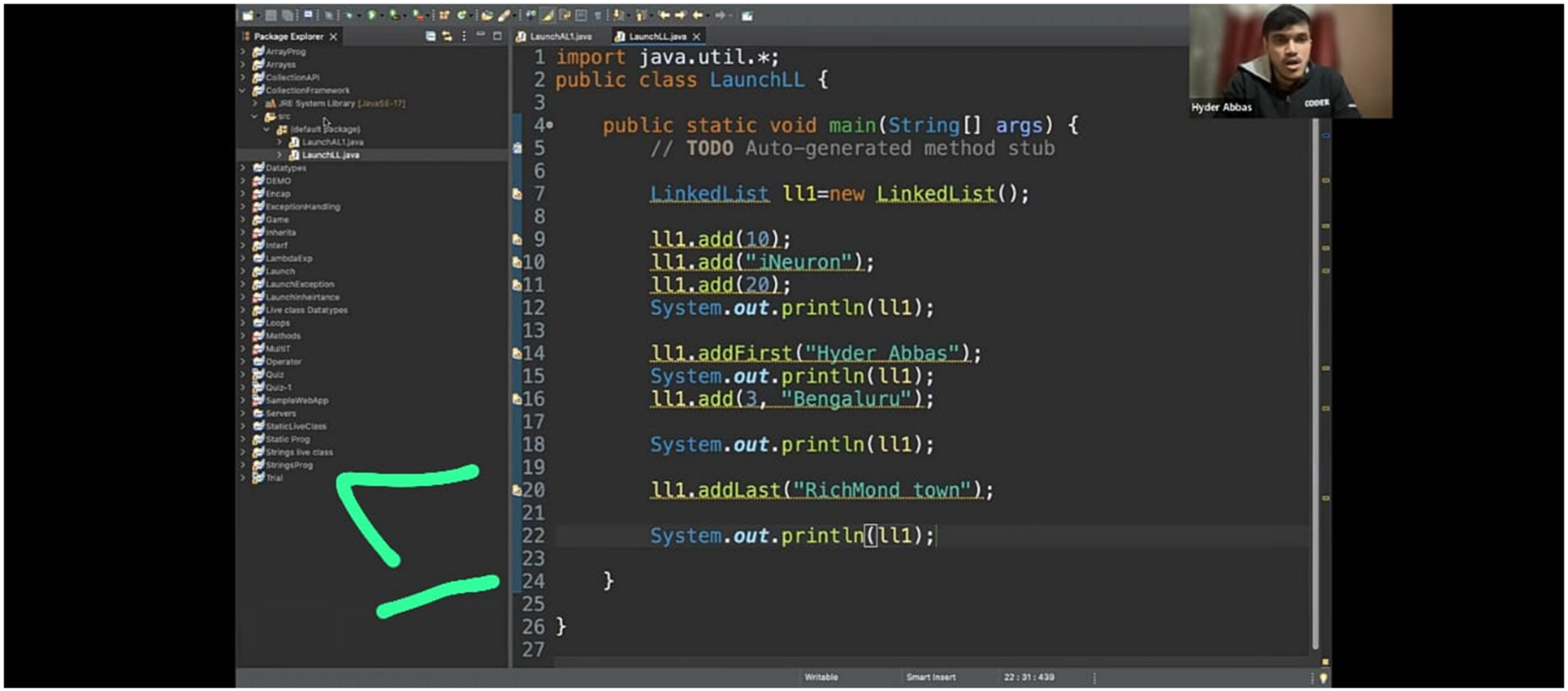
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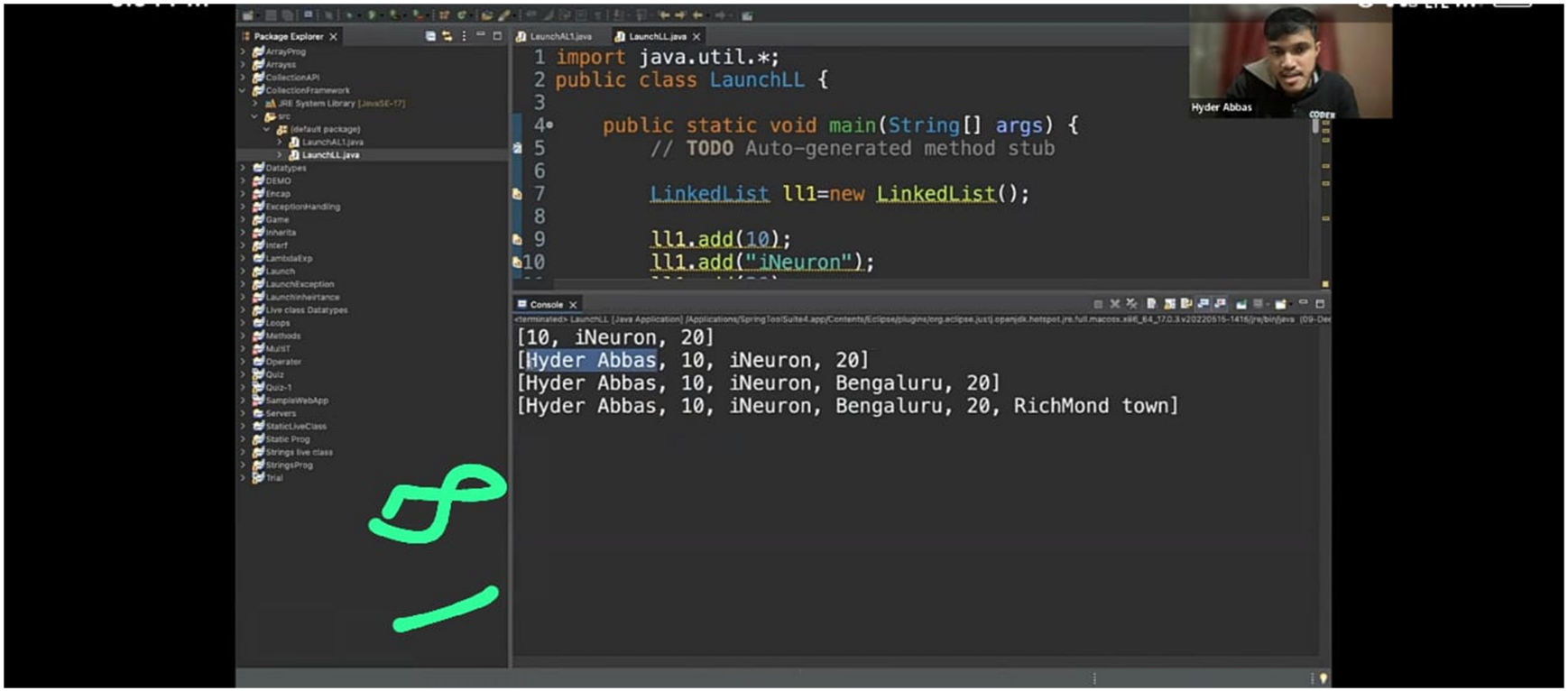
StringsProg
Trial
LaunchAL1.java
LaunchLL.java
1 import java.util.*;
2 public class LaunchLL {
3
4 public static void main(String[] args) {
5 // TODO Auto-generated method stub
6
7 LinkedList ll1=new LinkedList();
8
9 ll1.add(10);
10 ll1.add("iNeuron");
11 ll1.add(20);
12 System.out.println(ll1);
13
14 ll1.addFirst("Hyder Abbas");
15 System.out.println(ll1);
16 ll1.add(3, "Bengaluru");
17
18 System.out.println(ll1);
19
20 ll1.addLast("RichMond town");
21
22 System.out.println(ll1);
23
24 }
25
26 }
27
Hyder Abbas
CODER
Writable
Smart Insert
22 : 31 : 439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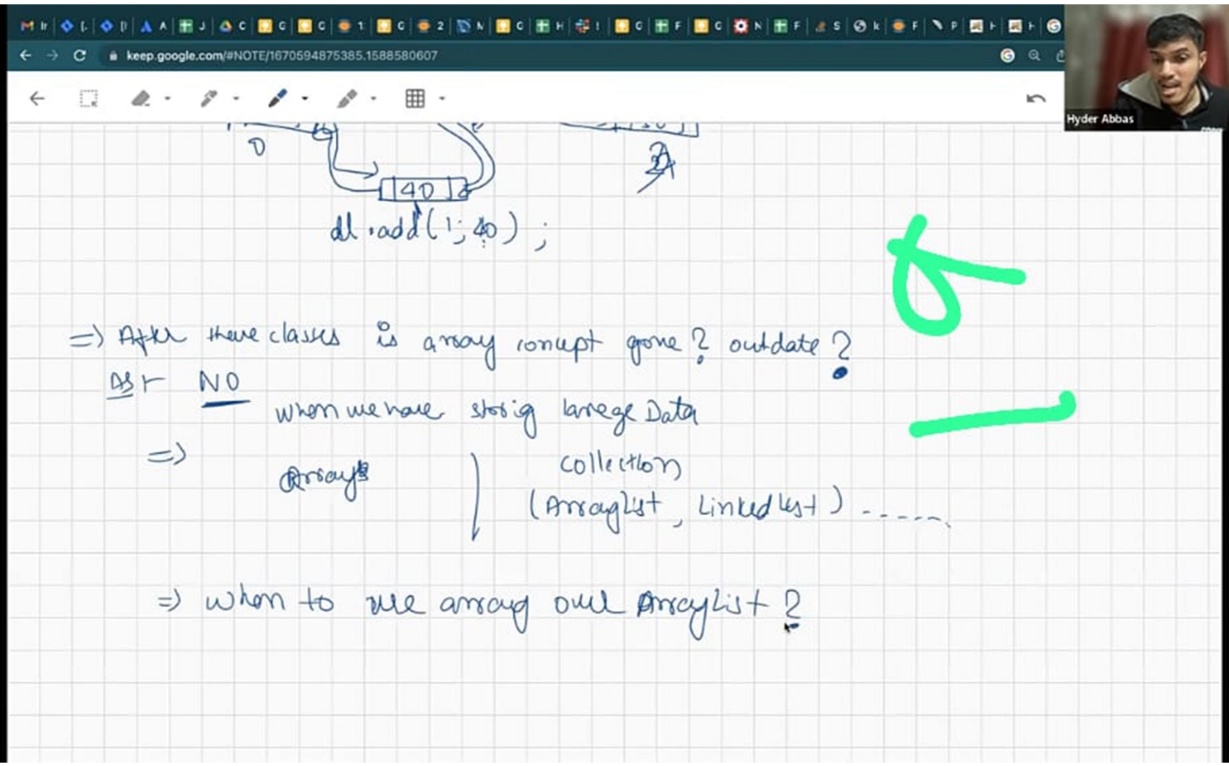
2 public class LaunchLL {
3
4 public static void main(String[] args) {
5 // TODO Auto-generated method stub
6
7 LinkedList ll1=new LinkedList();
8
9 ll1.add(10);
10 ll1.add("iNeuron");
Hyder Abbas
Console
[10, iNeuron, 20]
[Hyder Abbas, 10, iNeuron, 20]
[Hyder Abbas, 10, iNeuron, Bengaluru, 20]
[Hyder Abbas, 10, iNeuron, Bengaluru, 20, RichMond town]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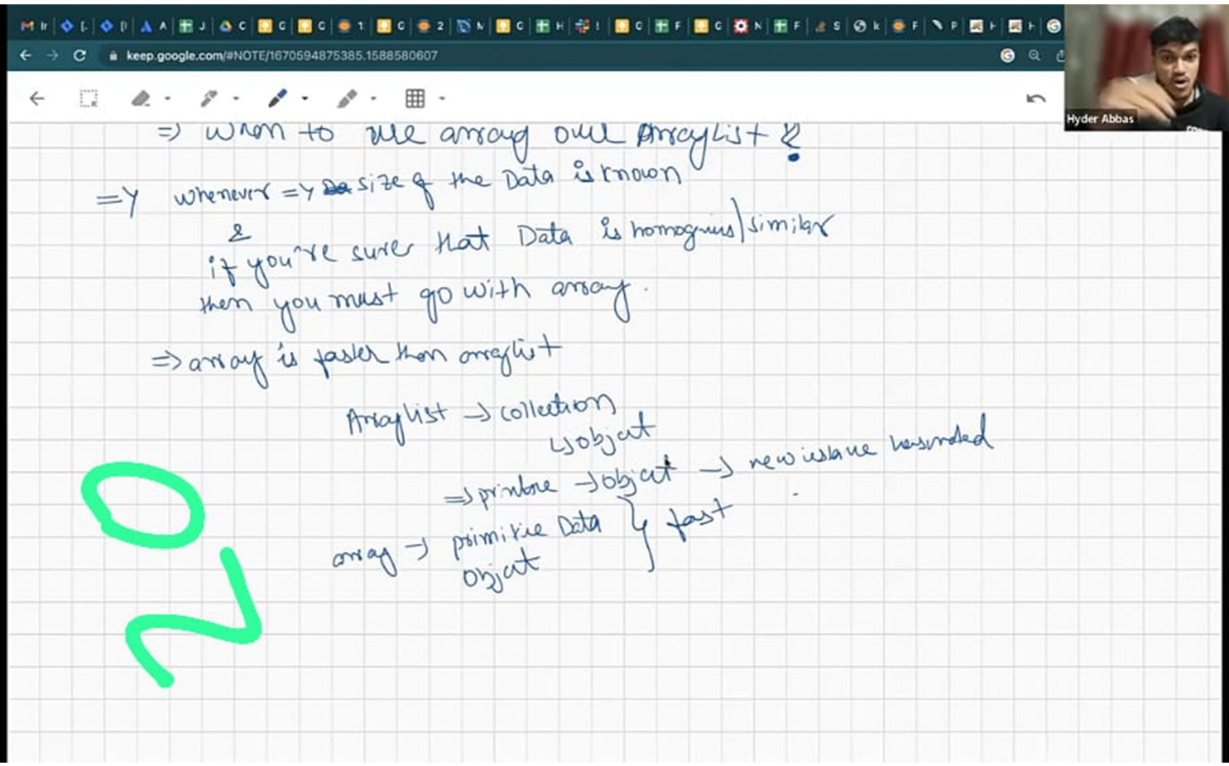
40
dl.add(1, 40);
=> After these classes is array concept gone? outdate?
Ans- NO
when we have storing larege Data
=>
Arrays
collection
(ArrayList, LinkedList) .....
=> when to use array over ArrayList?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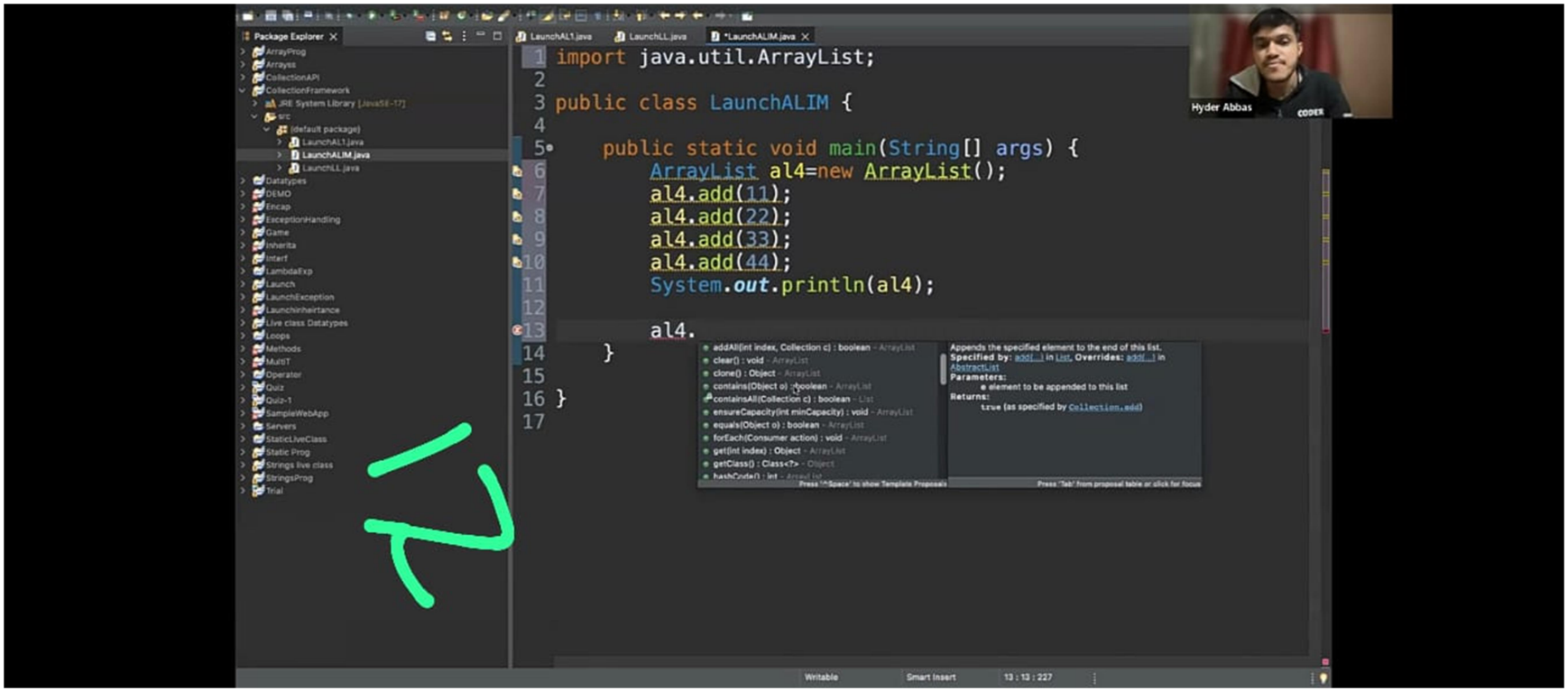
=> When to use array over Arraylist ?
=> whenever size of the Data is known
&
if you're sure that Data is homogenus/similar
then you must go with array.
=> array is faster than arraylist
Arraylist -> collection
-> object
=> primitive -> object -> new instance is created
array -> primitive Data } fast
Object
20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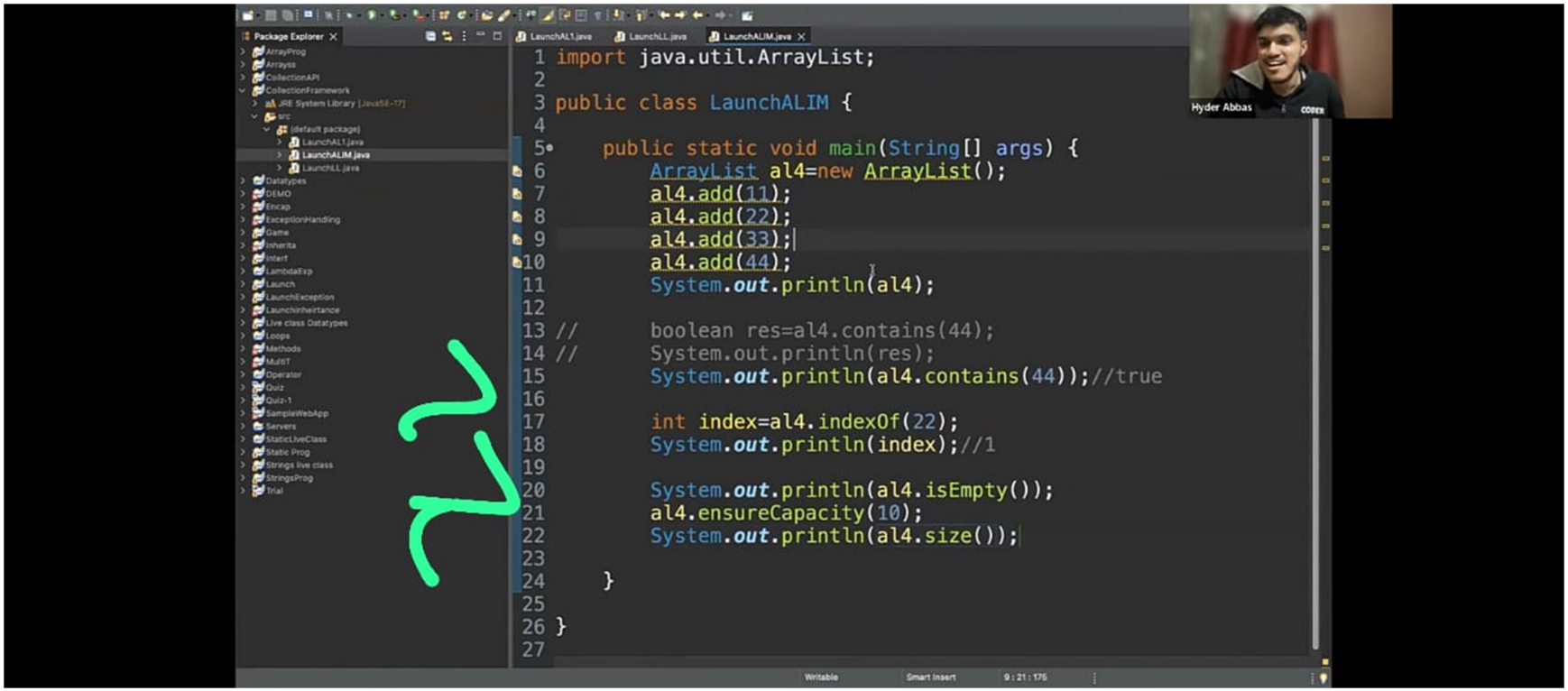
Trial
LaunchAL1.java
LaunchLL.java
*LaunchALIM.java
1 import java.util.ArrayList;
2
3 public class LaunchALIM {
4
5 public static void main(String[] args) {
6 ArrayList al4=new ArrayList();
7 al4.add(11);
8 al4.add(22);
9 al4.add(33);
10 al4.add(44);
11 System.out.println(al4);
12
13 al4.
14 }
15
16 }
17
addAll(int index, Collection c) : boolean - ArrayList
clear() : void - ArrayList
clone() : Object - ArrayList
contains(Object o) : boolean - ArrayList
containsAll(Collection c) : boolean - List
ensureCapacity(int minCapacity) : void - ArrayList
equals(Object o) : boolean - ArrayList
forEach(Consumer action) : void - ArrayList
get(int index) : Object - ArrayList
getClass() : Class<?> - Object
Appends the specified element to the end of this list.
Specified by: add(...) in List. Overrides: add(...) in AbstractList
Parameters:
e element to be appended to this list
Returns:
true (as specified by Collection.add)
Press '^Space' to show Template Proposals
Press 'Tab' from proposal table or click for focus
Writable
Smart Insert
13 : 13 : 227
Hyder Abbas
CODER


Package Explorer
LaunchAL1.java
LaunchLL.java
LaunchALIM.java
1 import java.util.ArrayList;
2
3 public class LaunchALIM {
4
5 public static void main(String[] args) {
6 ArrayList al4=new ArrayList();
7 al4.add(11);
8 al4.add(22);
9 al4.add(33);
10 al4.add(44);
11 System.out.println(al4);
12
13 // boolean res=al4.contains(44);
14 // System.out.println(res);
15 System.out.println(al4.contains(44));//true
16
17 int index=al4.indexOf(22);
18 System.out.println(index);//1
19
20 System.out.println(al4.isEmpty());
21 al4.ensureCapacity(10);
22 System.out.println(al4.size());
23
24 }
25
26 }
27
Hyder Abbas
Writable
Smart Insert
9 : 21 : 175

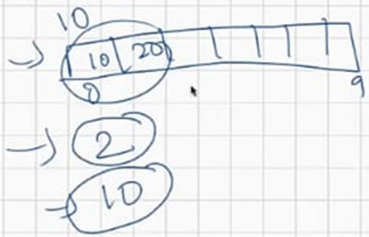
keep.google.com/#NOTE/1670594875385.1588580607

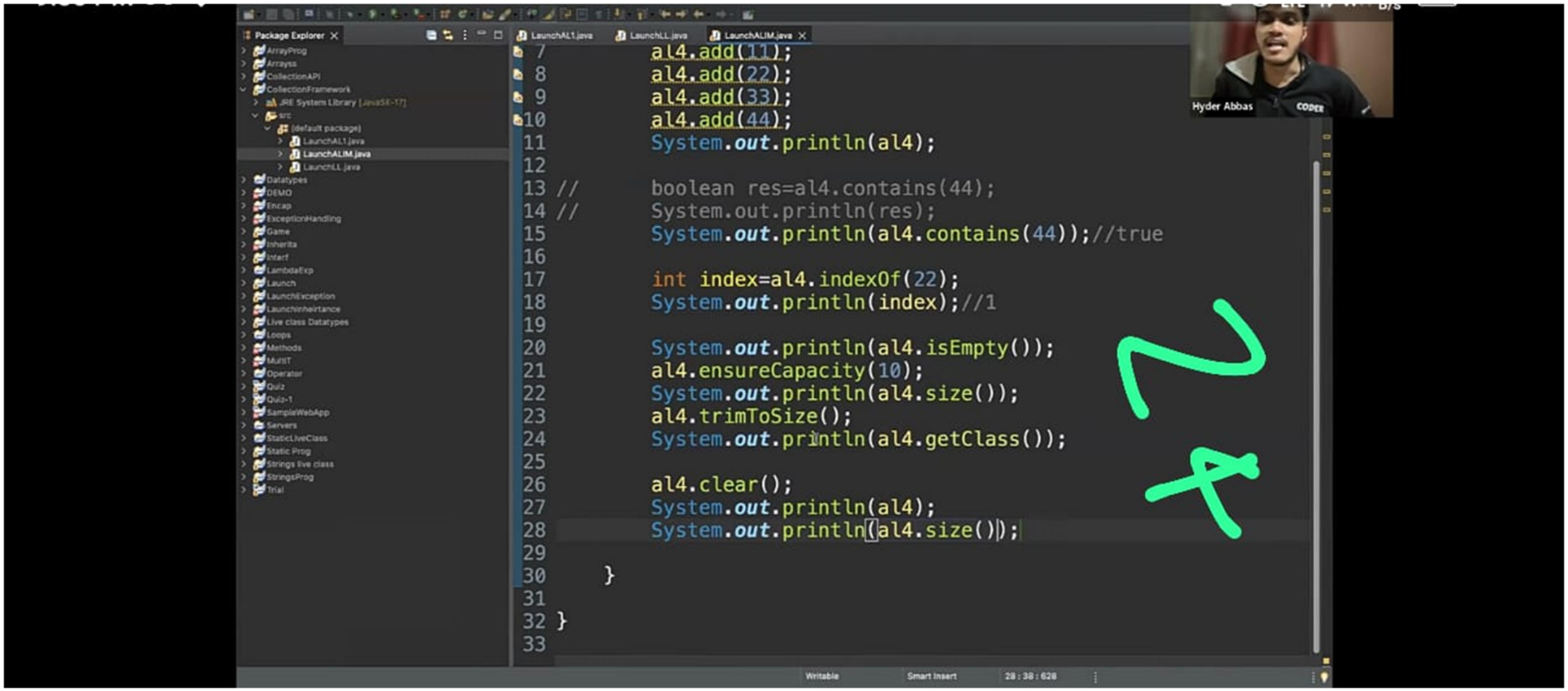
Hyder Abbas

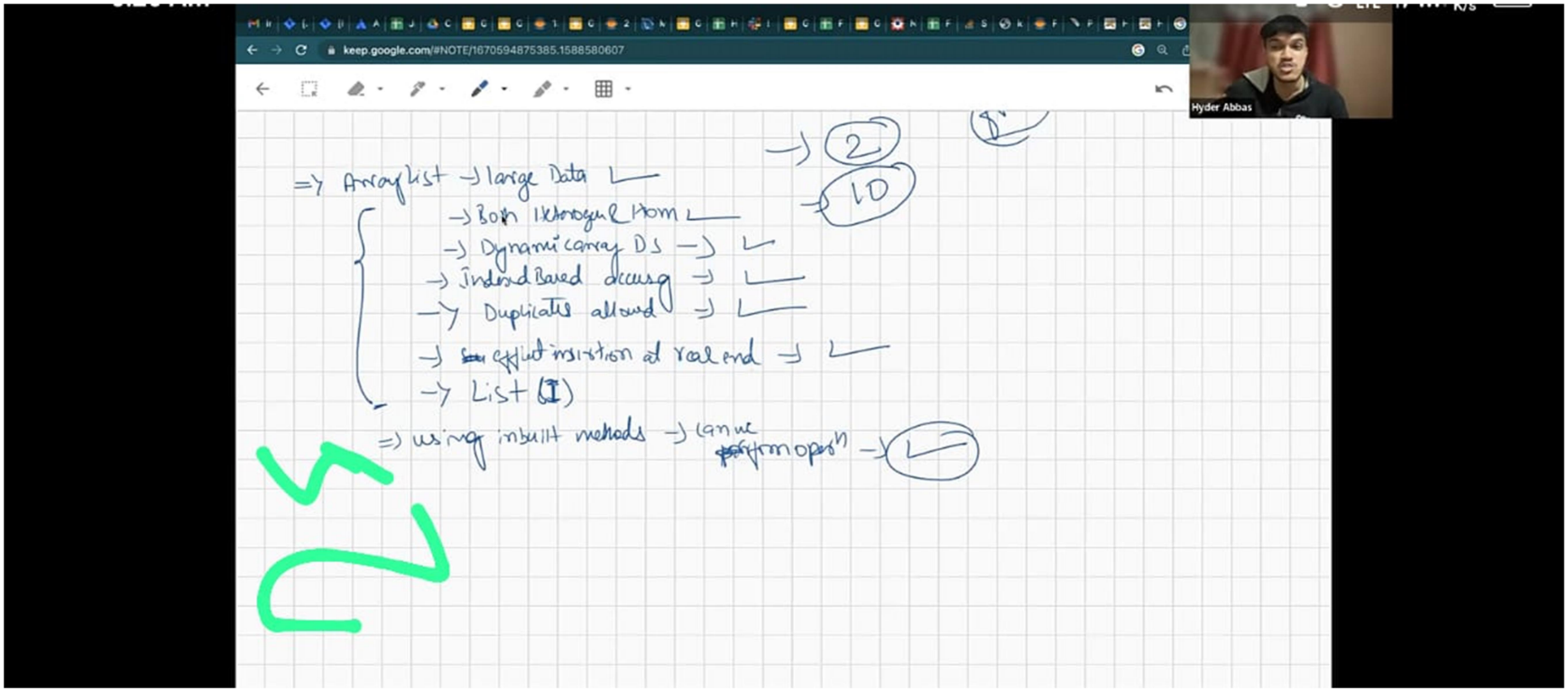
array ⇒ primitive Data
Object
} fast

⇒ ArrayList & LinkedList
(Duplicates are allowed).

⇒




Package Explorer
ArrayProg
Arrayss
CollectionAPI
CollectionFramework
JRE System Library [JavaSE-17]
src
(default package)
LaunchAL1.java
LaunchALIM.java
LaunchLL.java
Datatypes
DEMO
Encap
ExceptionHandling
Game
Inherita
Interf
LambdaExp
Launch
LaunchException
LaunchInheritance
Live class Datatypes
Loops
Methods
MultiT
Operator
Quiz
Quiz-1
SampleWebApp
Servers
StaticLiveClass
Static Prog
Strings live class
StringsProg
Trial
LaunchAL1.java
LaunchLL.java
LaunchALIM.java
al4.add(11);
al4.add(22);
al4.add(33);
al4.add(44);
System.out.println(al4);
// boolean res=al4.contains(44);
// System.out.println(res);
System.out.println(al4.contains(44));//true
int index=al4.indexOf(22);
System.out.println(index);//1
System.out.println(al4.isEmpty());
al4.ensureCapacity(10);
System.out.println(al4.size());
al4.trimToSize();
System.out.println(al4.getClass());
al4.clear();
System.out.println(al4);
System.out.println(al4.size());
}
}
Writable
Smart Insert
28 : 38 : 628
Hyder Abbas
CODES
27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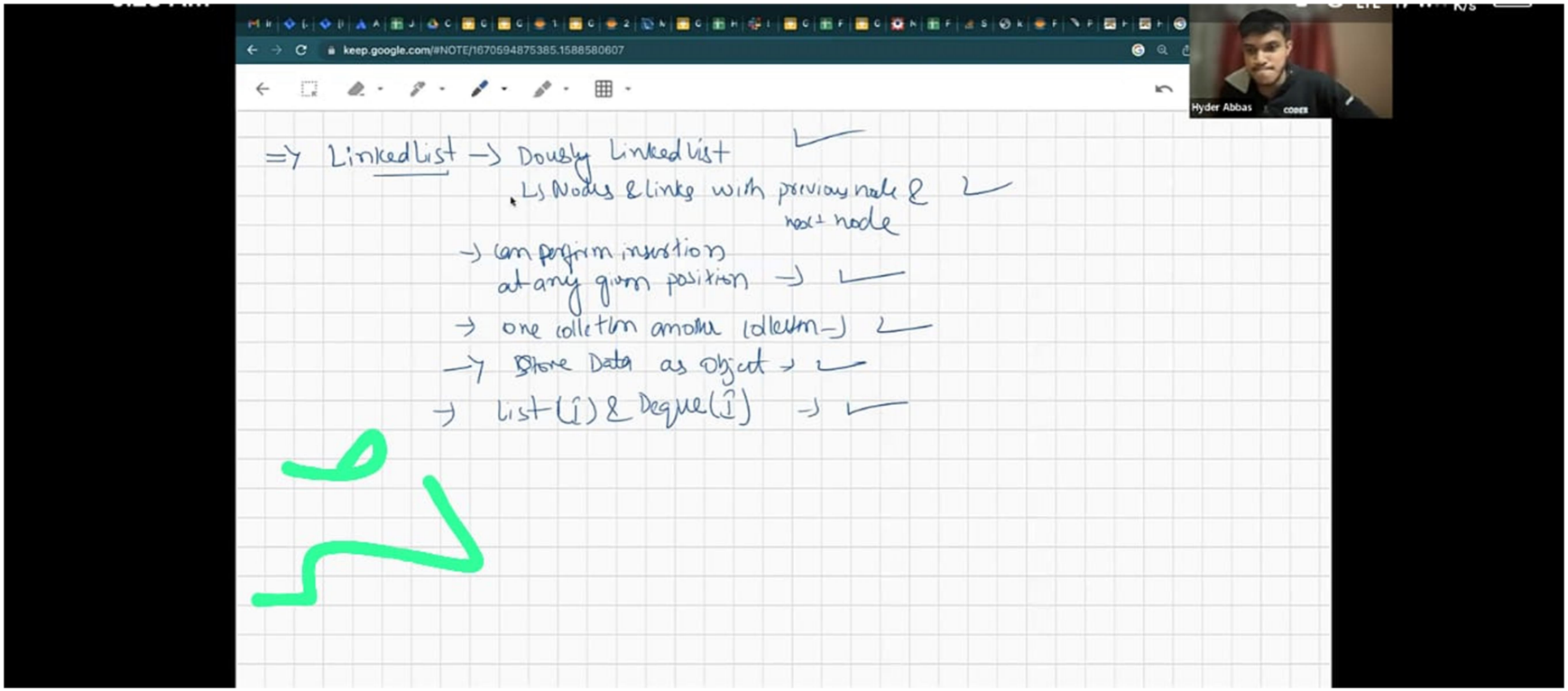
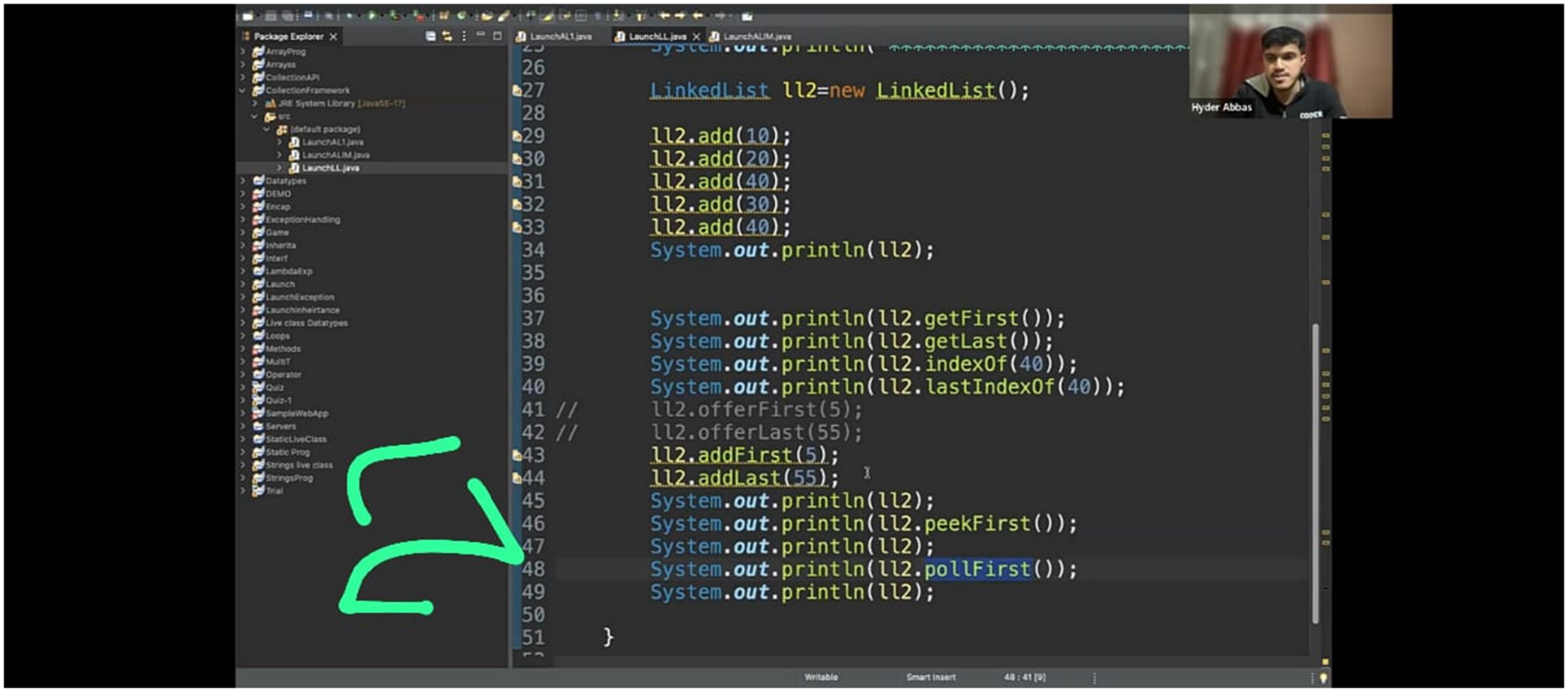
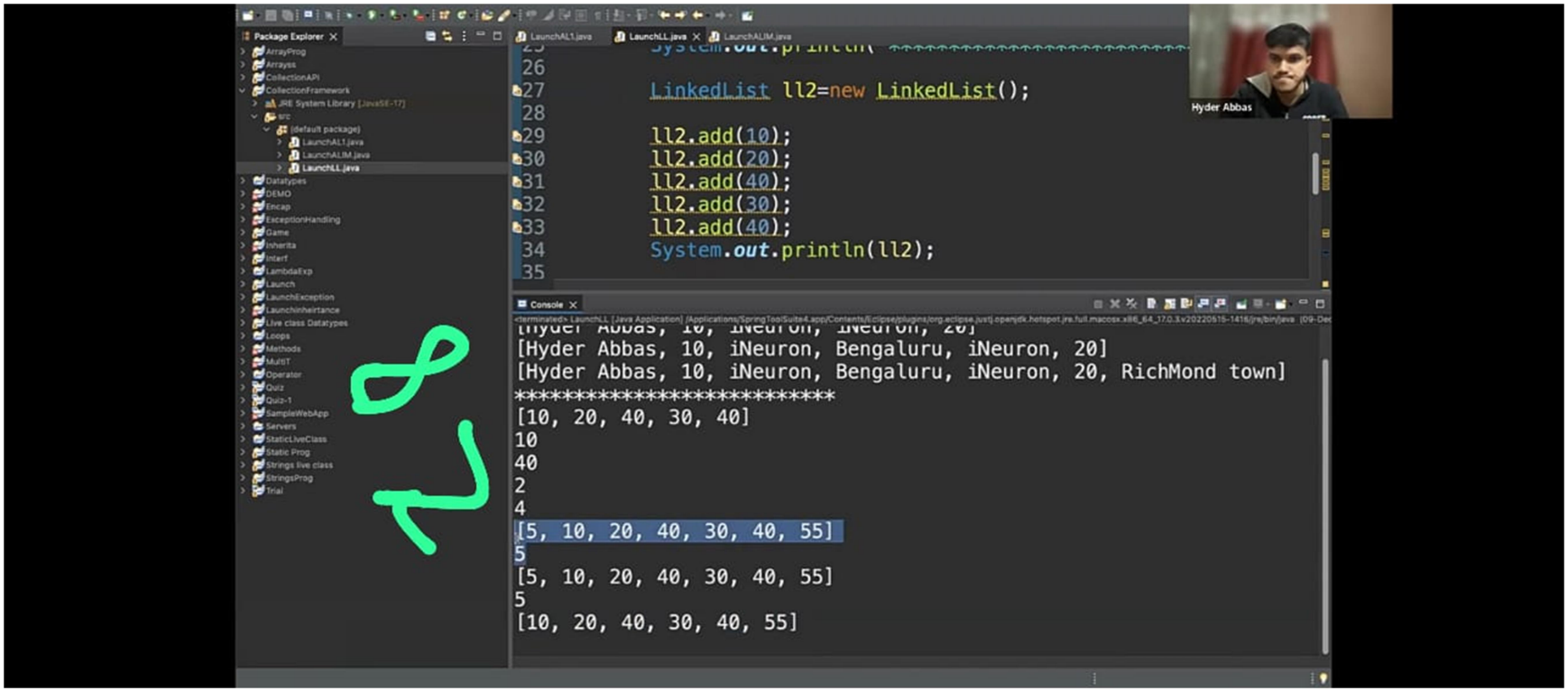
Hyder Abbas
=> Arraylist -> large Data
-> Both Heterogeneous Non
-> Dynamic array DS ->
-> Index Based accessing ->
-> Duplicates allowed ->
-> efficient insertion at rear end ->
-> List (I)
=> using inbuilt methods -> can we perform operation
2
10


keep.google.com/#NOTE/1670594875385.1588580607
Hyder Abbas
coder
=> LinkedList -> Doubly LinkedList
-> Ls Nodes & links with previous node & next node
-> can perform insertion at any given position ->
-> one collection another (collection)
-> Store Data as object ->
-> List(I) & Deque(I) ->


Package Explorer
LaunchAL1.java
LaunchLL.java
LaunchALIM.java
Hyder Abbas
26
27 LinkedList ll2=new LinkedList();
28
29 ll2.add(10);
30 ll2.add(20);
31 ll2.add(40);
32 ll2.add(30);
33 ll2.add(40);
34 System.out.println(ll2);
35
36
37 System.out.println(ll2.getFirst());
38 System.out.println(ll2.getLast());
39 System.out.println(ll2.indexOf(40));
40 System.out.println(ll2.lastIndexOf(40));
41 // ll2.offerFirst(5);
42 // ll2.offerLast(55);
43 ll2.addFirst(5);
44 ll2.addLast(55);
45 System.out.println(ll2);
46 System.out.println(ll2.peekFirst());
47 System.out.println(ll2);
48 System.out.println(ll2.pollFirst());
49 System.out.println(ll2);
50
51 }
Writable
Smart Insert
48 : 41 [9]


Package Explorer
ArrayProg
Arrayss
CollectionAPI
CollectionFramework
JRE System Library [JavaSE-17]
src
(default package)
LaunchAL1.java
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Datatypes
DEMO
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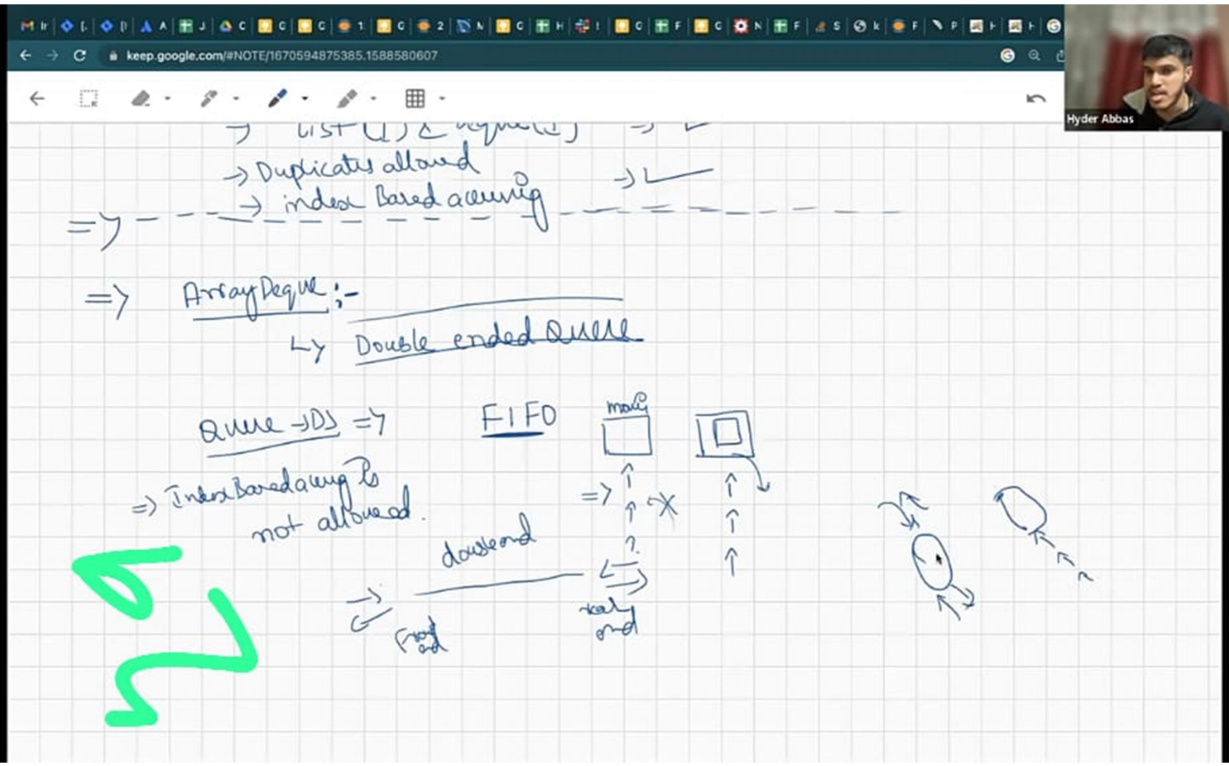
Launch
LaunchException
LaunchInheritance
Live class Datatypes
Loops
Methods
MultiT
Operator
Quiz
Quiz-1
SampleWebApp
Servers
StaticLiveClass
Static Prog
Strings live class
StringsProg
Trial
LaunchAL1.java
LaunchLL.java
LaunchALIM.java
LinkedList ll2=new LinkedList();
ll2.add(10);
ll2.add(20);
ll2.add(40);
ll2.add(30);
ll2.add(40);
System.out.println(ll2);
Hyder Abbas
Console
[Hyder Abbas, 10, iNeuron, Bengaluru, iNeuron, 20]
[Hyder Abbas, 10, iNeuron, Bengaluru, iNeuron, 20, RichMond town]
****
[10, 20, 40, 30, 40]
10
40
2
4
[5, 10, 20, 40, 30, 40, 55]
5
[5, 10, 20, 40, 30, 40, 55]
5
[10, 20, 40, 30, 40, 55]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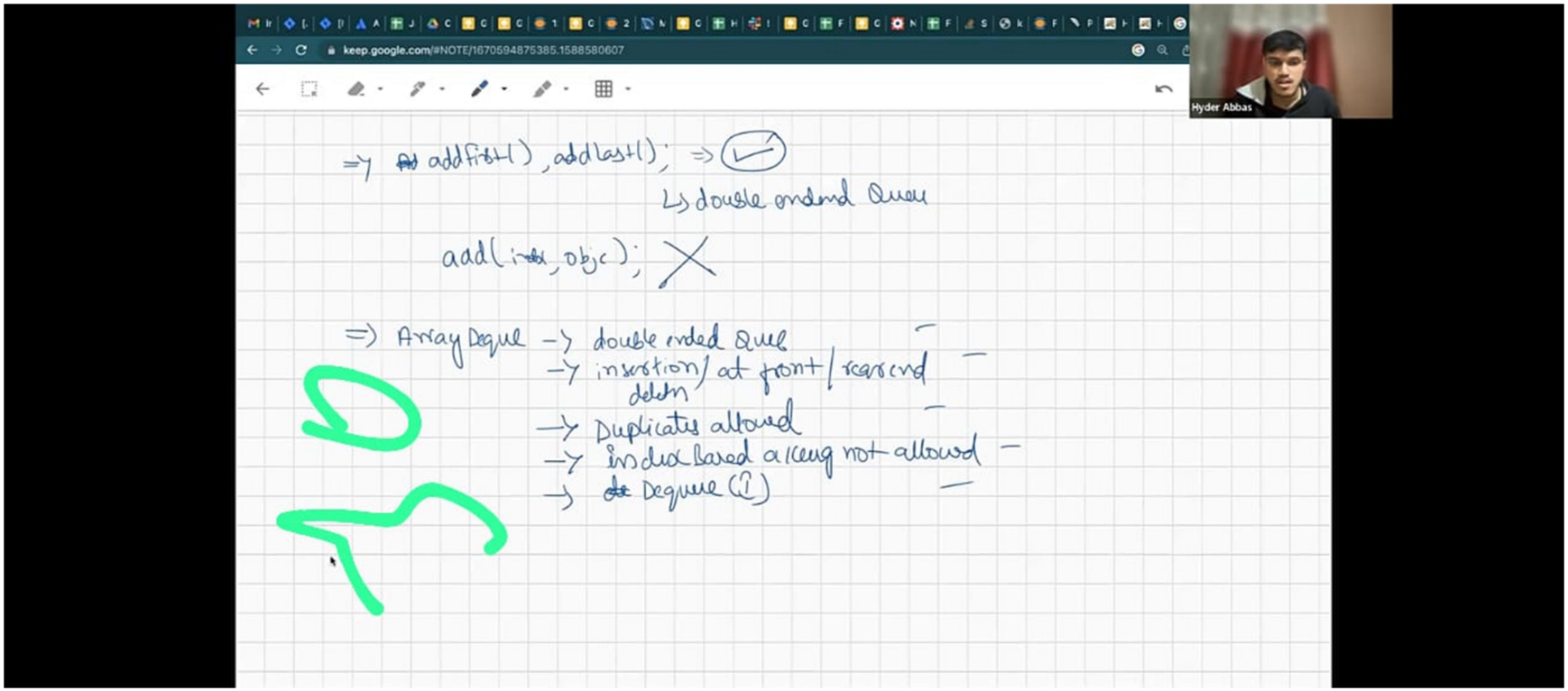
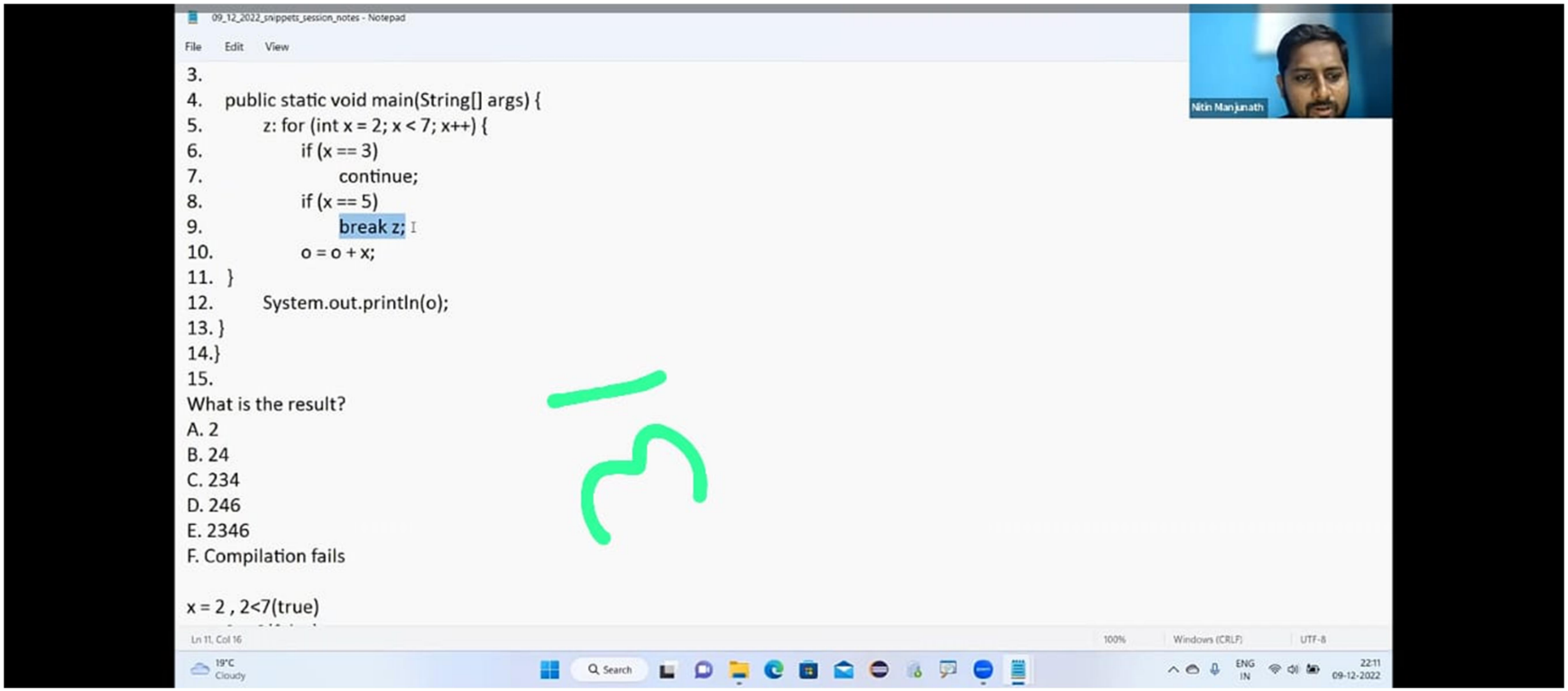
Hyder Abbas
→ Duplicates allowed
→ index Based accessing
ArrayDeque :-
Double ended Queue
Queue → DS
FIFO
Index Based access is not allowed.
dequeue
front end
rear end


keep.google.com/#NOTE/1670594875385.1588580607
Hyder Abbas
=> addFirst(), addLast(); =>
↳ double ended Queue
add(index, obj); X
=> ArrayDeque -> double ended Queue
-> insertion/ at front / rear end
delete
-> Duplicates allowed
-> index based access not allowed
-> Deque (I)


09_12_2022_snippets_session_notes - Notepad
File Edit View
3.
4. public static void main(String[] args) {
5. z: for (int x = 2; x < 7; x++) {
6. if (x == 3)
7. continue;
8. if (x == 5)
9. break z;
10. o = o + x;
11. }
12. System.out.println(o);
13. }
14.}
15.
What is the result?
A. 2
B. 24
C. 234
D. 246
E. 2346
F. Compilation fails
x = 2 , 2<7(true)
Nitin Manjunath
Ln 11, Col 16
100%
Windows (CRLF)
UTF-8
19°C
Cloudy
Search
ENG
IN
22:11
09-12-2022

09_12_2022_snippets_session_notes - Notepad

File Edit View

C. 234
D. 246
E. 2346
F. Compilation fails

x = 2 , 2<7(true)
2==3(false)
2==5(false)
o = "2"

x = 3, 3<7(true)
3==3(true)
x= 4, 4<7(true)
4==3(false)
4==5(false)
o ="24"
x= 5, 5<7(true)
5==3(false)
5==5(true)

Answer:B("24")

Ln 32, Col 12 100% Windows (CRLF) UTF-8

19°C Cloudy Search ENG IN 22:12 09-12-2022

*09_12_2022_snippets_session_notes - Notepad

File Edit View

```
1. public class GC {
2.    private Object o;
3.    private void doSomethingElse(Object obj) { o = obj; }
4.    public void doSomething() {
5.          Object o = new Object();
6.          doSomethingElse(o);
7.          o = new Object();
8.          doSomethingElse(null);
9.          o = null;
10.   }
11.}
```

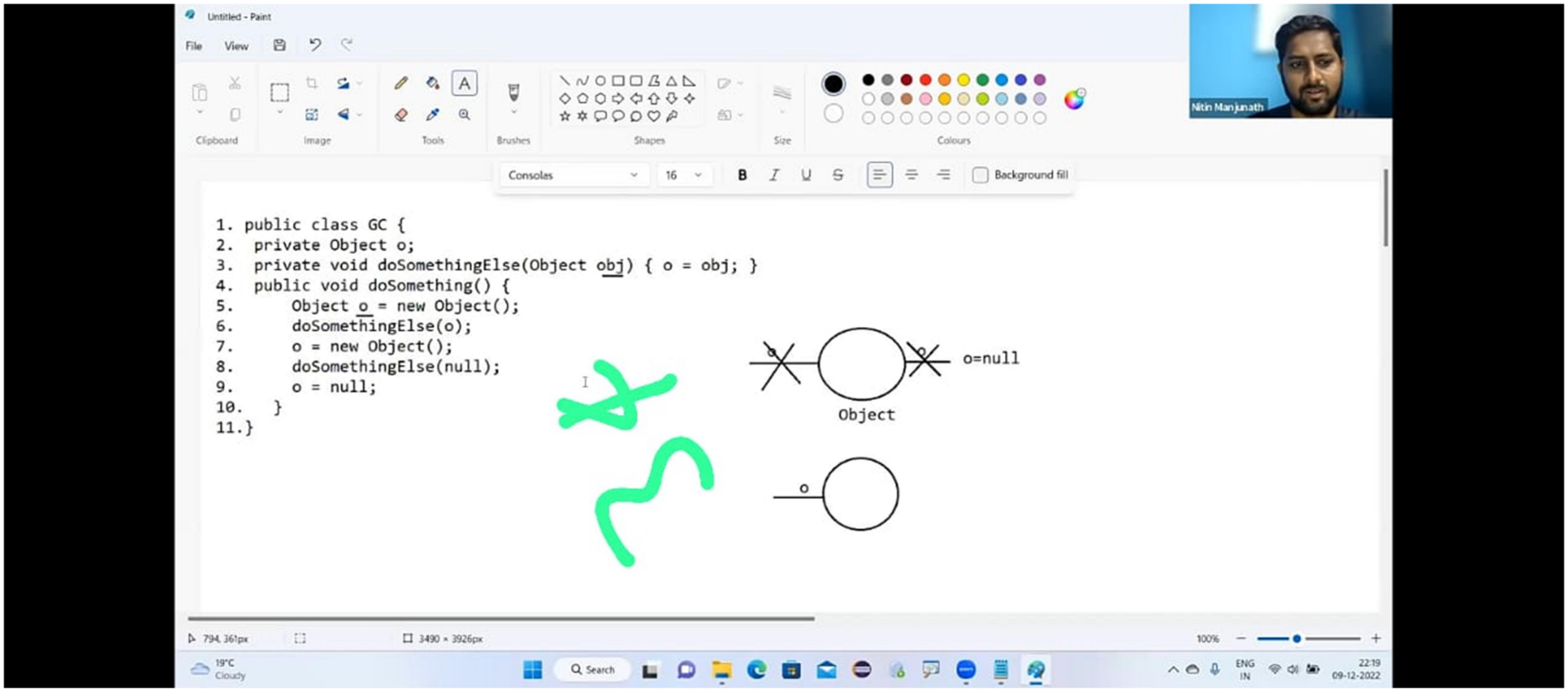
When the doSomething method is called, after which line does the Object created in line 5 become available for garbage collection?

A. Line 5
B. Line 6
C. Line 7
D. Line 8
E. Line 9
F. Line 10

Answer: D

Ln 69, Col 1 100% Windows (CRLF) UTF-8

19°C Cloudy Search ENG IN 22:20 09-12-2022


Untitled - Paint
File
View
Clipboard
Image
Tools
Brushes
Shapes
Size
Colours
Nitin Manjunath
Consolas
16
Background fill
1. public class GC {
2. private Object o;
3. private void doSomethingElse(Object obj) { o = obj; }
4. public void doSomething() {
5. Object o = new Object();
6. doSomethingElse(o);
7. o = new Object();
8. doSomethingElse(null);
9. o = null;
10. }
11.}
o=null
Object
o
794, 361px
3490 × 3926px
100%
19°C
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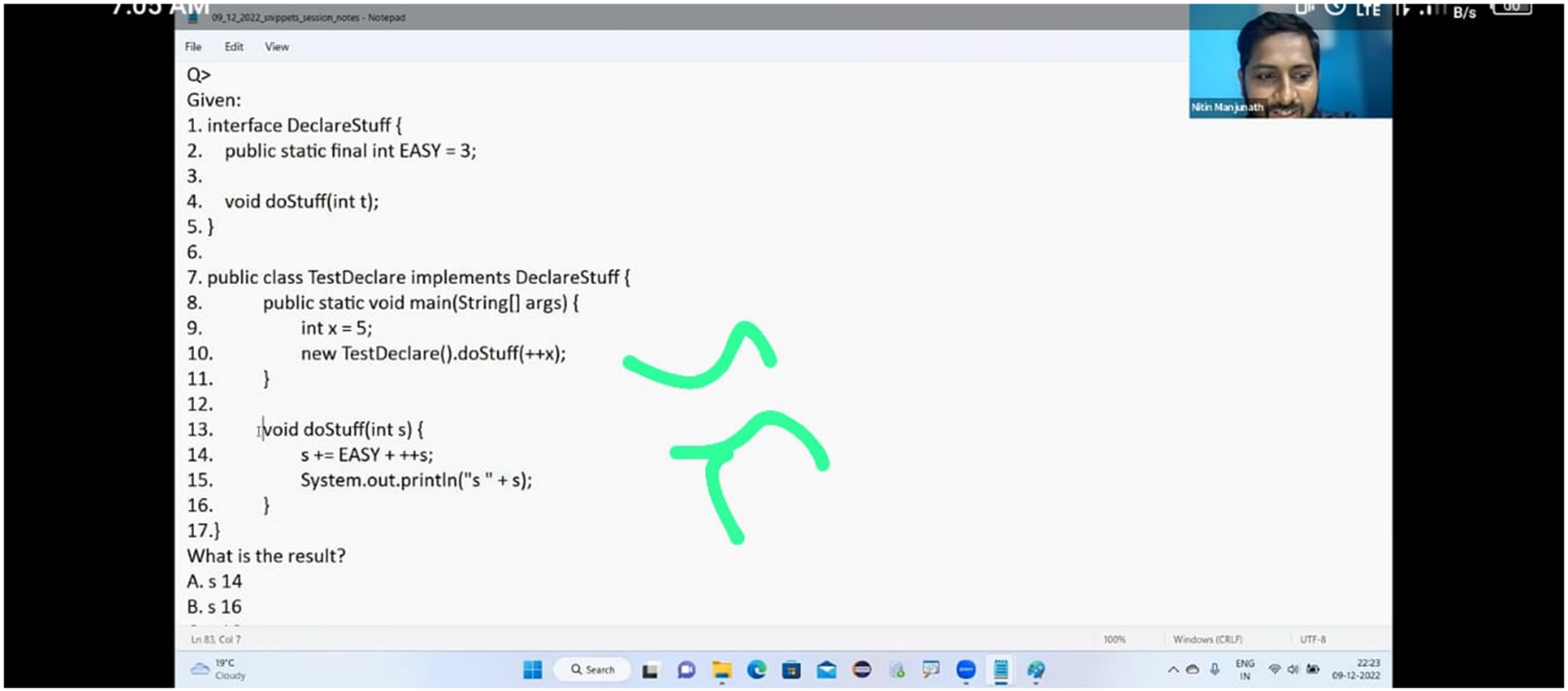
Search
ENG
IN
22:19
09-12-2022


09_12_2022_snippets_session_notes - Notepad
File Edit View
Q>
Given:
1. interface DeclareStuff {
2. public static final int EASY = 3;
3.
4. void doStuff(int t);
5. }
6.
7. public class TestDeclare implements DeclareStuff {
8. public static void main(String[] args) {
9. int x = 5;
10. new TestDeclare().doStuff(++x);
11. }
12.
13. void doStuff(int s) {
14. s += EASY + ++s;
15. System.out.println("s " + s);
16. }
17.}
What is the result?
A. s 14
B. s 16
Nitin Manjunath
Ln 83, Col 7
100%
Windows (CRLF)
UTF-8
19°C
Cloudy
Search
ENG
IN
22:23
09-12-2022


09_12_2022_snippets_session_notes - Notepad
File Edit View
10. new TestDeclare().doStuff(++x);
11. }
12.
13. void doStuff(int s) {
14. s += EASY + ++s;
15. System.out.println("s " + s);
16. }
17.}
What is the result?
A. s 14
B. s 16
C. s 10
D. Compilation fails.
E. An exception is thrown at runtime.
Answer: D
Nitin Manjunath
Ln 97, Col 1
100%
Windows (CRLF)
UTF-8
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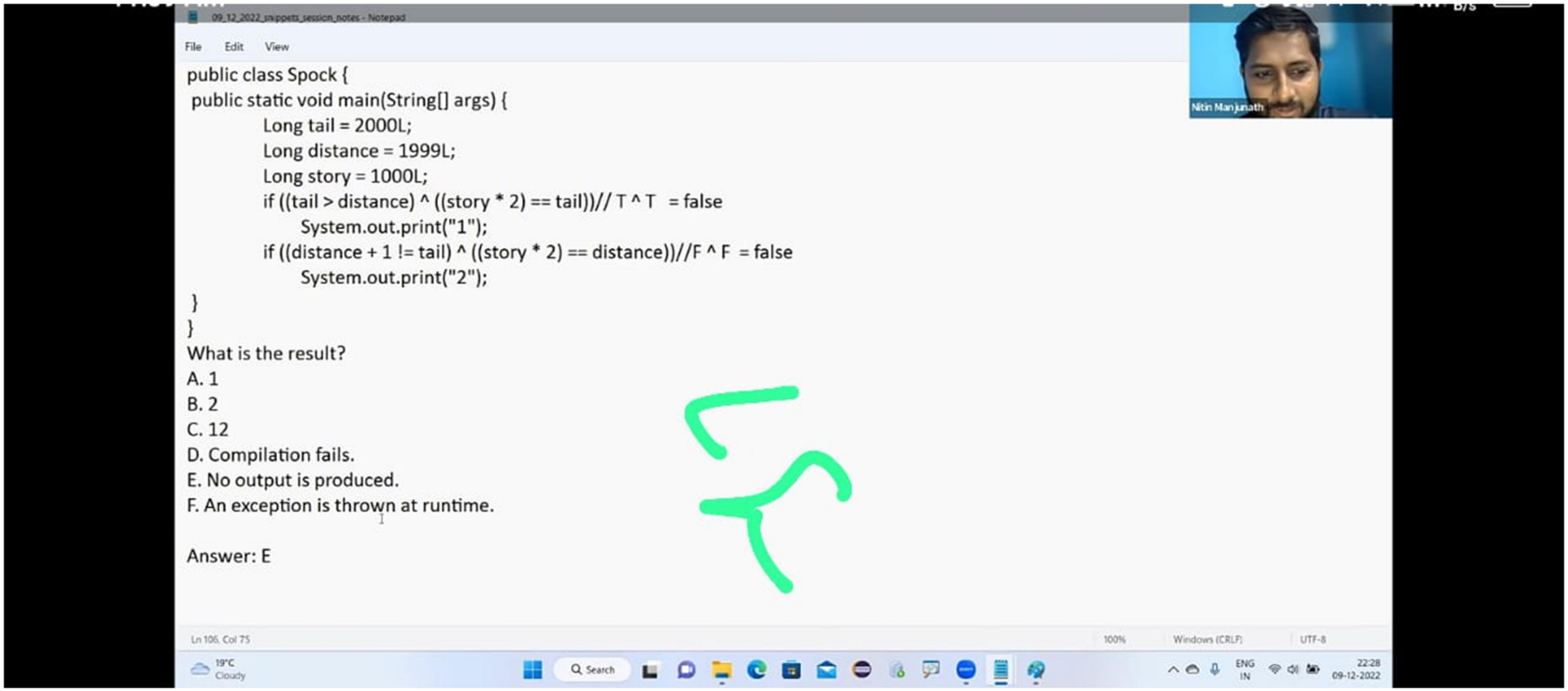
22:23
09-12-2022


09_12_2022_snippets_session_notes - Notepad
File Edit View
public class Spock {
public static void main(String[] args) {
Long tail = 2000L;
Long distance = 1999L;
Long story = 1000L;
if ((tail > distance) ^ ((story * 2) == tail))// T ^ T = false
System.out.print("1");
if ((distance + 1 != tail) ^ ((story * 2) == distance))//F ^ F = false
System.out.print("2");
}
}
What is the result?
A. 1
B. 2
C. 12
D. Compilation fails.
E. No output is produced.
F. An exception is thrown at runtime.
Answer: E
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Ln 106, Col 75
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Windows (CRLF)
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22:28
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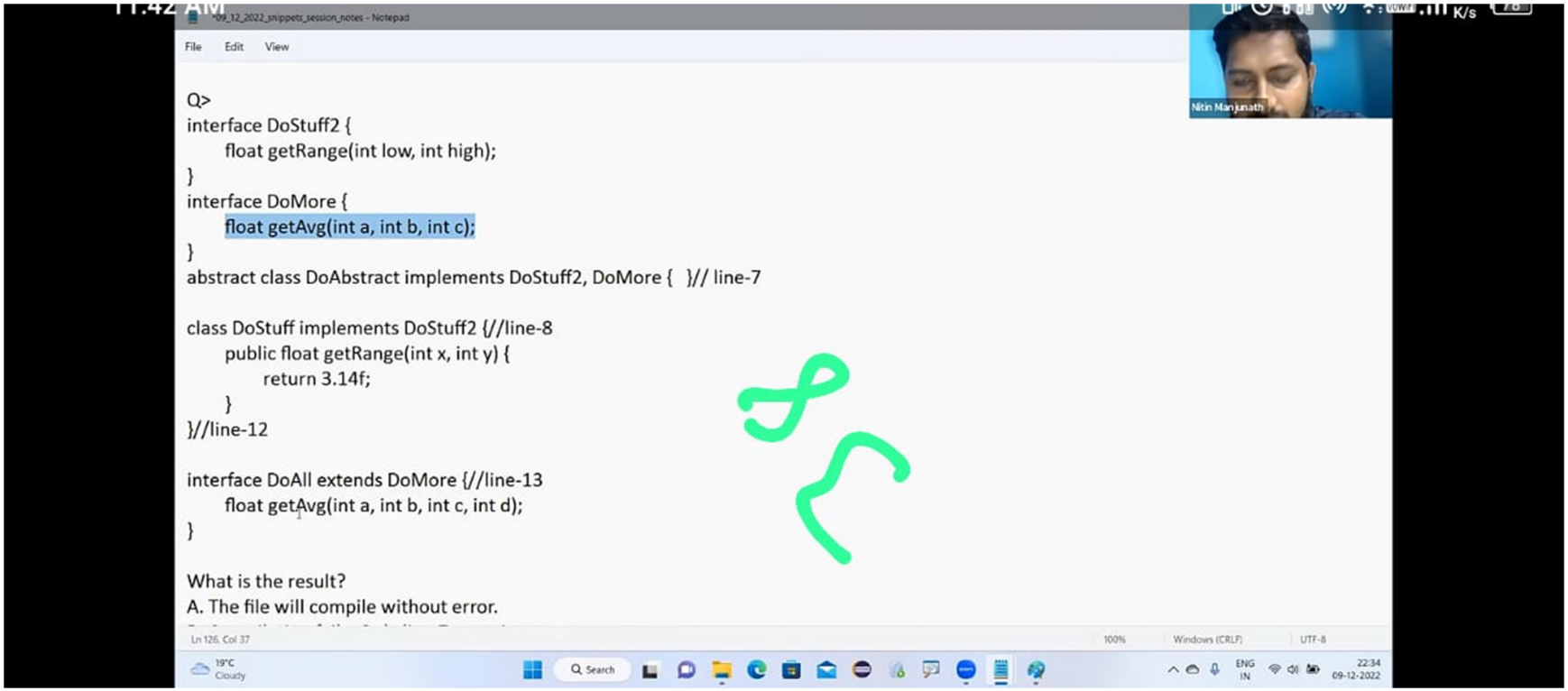
09_12_2022_snippets_session_notes - Notepad
File Edit View
Q>
interface DoStuff2 {
float getRange(int low, int high);
}
interface DoMore {
float getAvg(int a, int b, int c);
}
abstract class DoAbstract implements DoStuff2, DoMore { }// line-7
class DoStuff implements DoStuff2 {//line-8
public float getRange(int x, int y) {
return 3.14f;
}
}//line-12
interface DoAll extends DoMore {//line-13
float getAvg(int a, int b, int c, int d);
}
What is the result?
A. The file will compile without error.
Nitin Manjunath
Ln 126, Col 37
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Windows (CRLF)
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ENG
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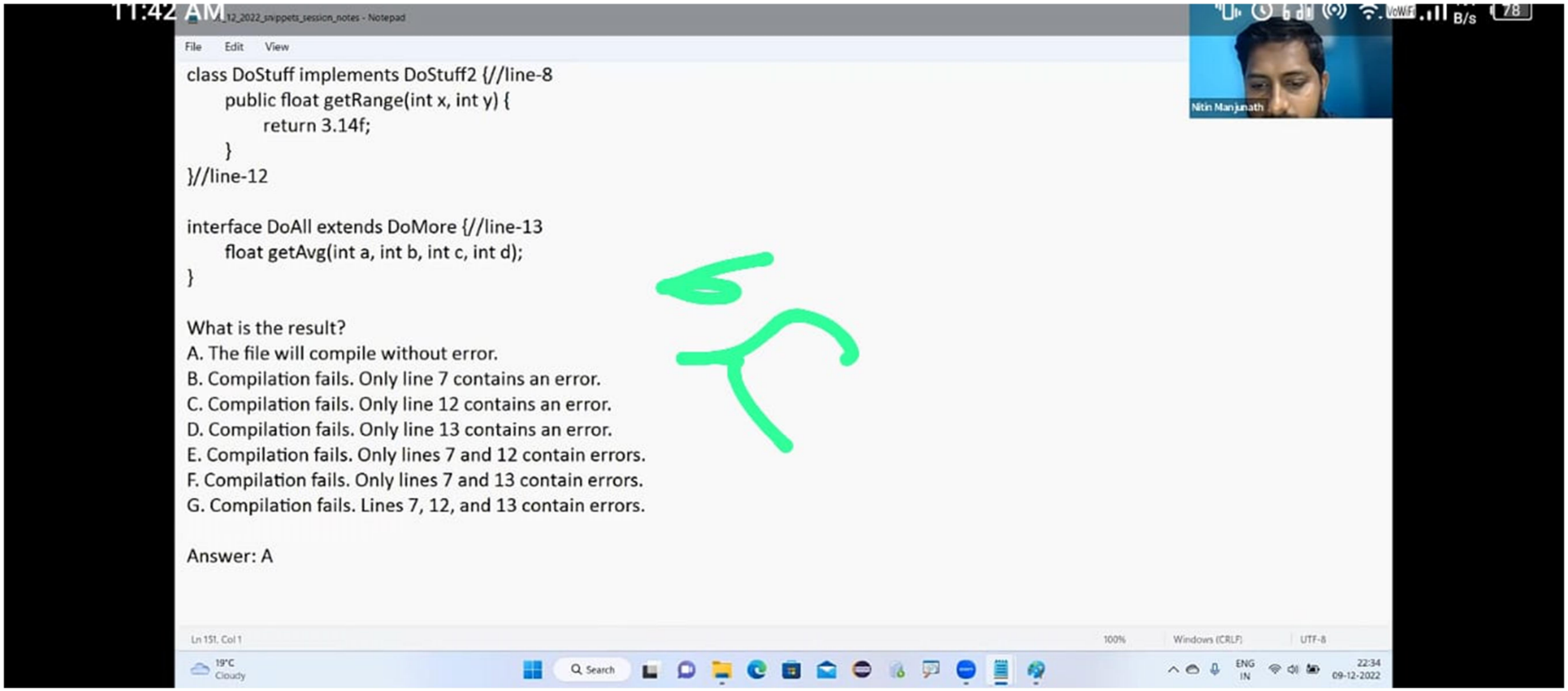
22:34
09-12-2022


11:42 AM
12_2022_snippets_session_notes - Notepad
File Edit View
class DoStuff implements DoStuff2 {//line-8
public float getRange(int x, int y) {
return 3.14f;
}
}//line-12
interface DoAll extends DoMore {//line-13
float getAvg(int a, int b, int c, int d);
}
What is the result?
A. The file will compile without error.
B. Compilation fails. Only line 7 contains an error.
C. Compilation fails. Only line 12 contains an error.
D. Compilation fails. Only line 13 contains an error.
E. Compilation fails. Only lines 7 and 12 contain errors.
F. Compilation fails. Only lines 7 and 13 contain errors.
G. Compilation fails. Lines 7, 12, and 13 contain errors.
Answer: A
Nitin Manjunath
Ln 151, Col 1
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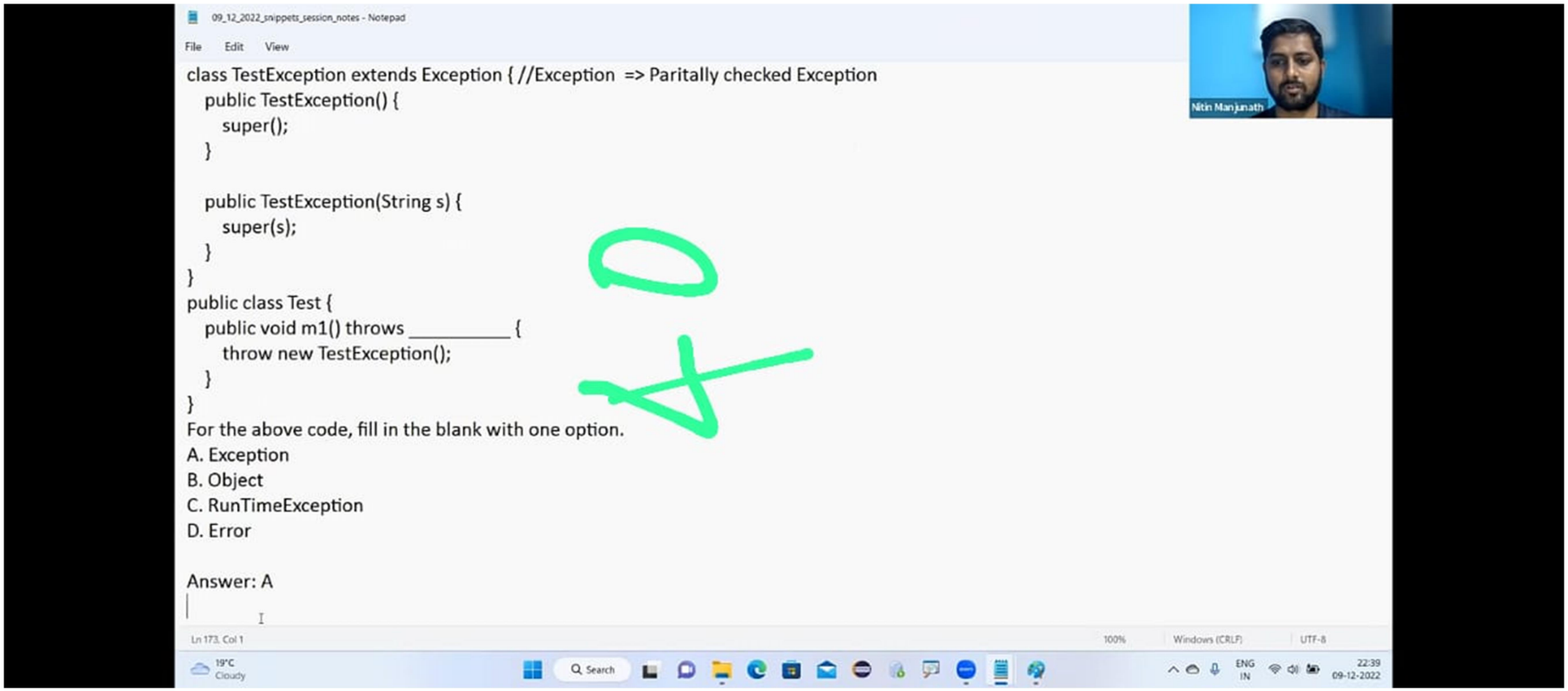
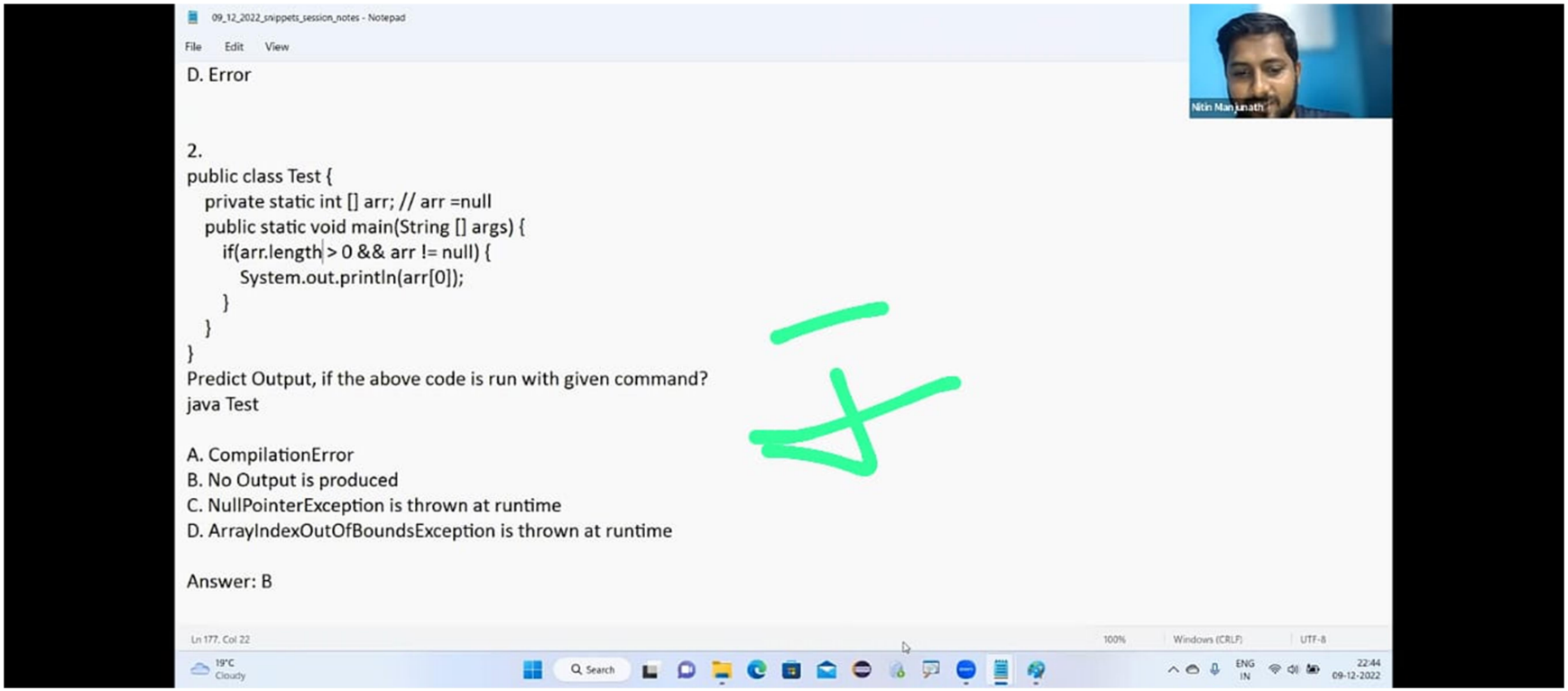
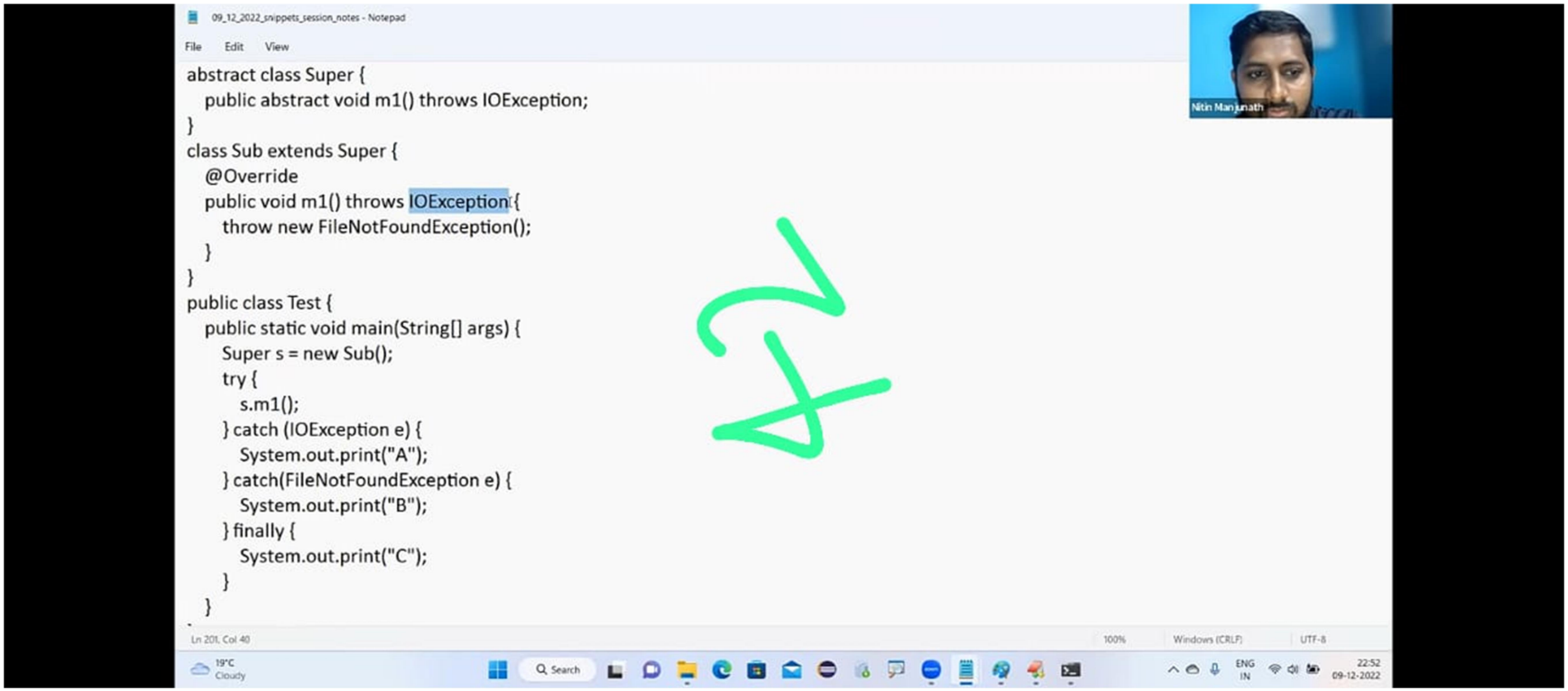
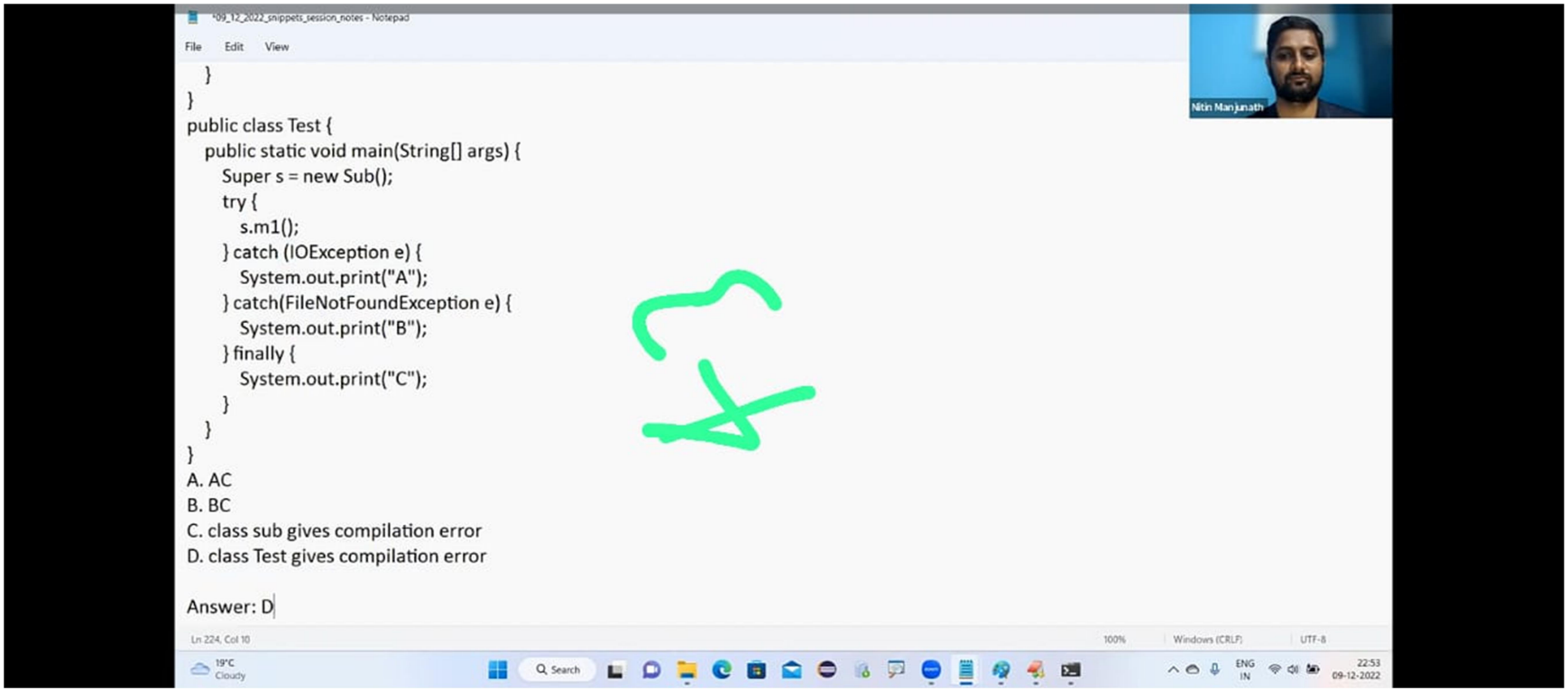
Search
ENG
IN
22:34
09-12-2022


09_12_2022_snippets_session_notes - Notepad
File Edit View
class TestException extends Exception { //Exception => Paritally checked Exception
public TestException() {
super();
}
public TestException(String s) {
super(s);
}
}
public class Test {
public void m1() throws _____ {
throw new TestException();
}
}
For the above code, fill in the blank with one option.
A. Exception
B. Object
C. RunTimeException
D. Error
Answer: A
Ln 173, Col 1
100%
Windows (CRLF)
UTF-8
19°C
Cloudy
Search
ENG
IN
22:39
09-12-2022
Nitin Manjunath


09_12_2022_snippets_session_notes - Notepad
File Edit View
D. Error
2.
public class Test {
private static int [] arr; // arr =null
public static void main(String [] args) {
if(arr.length > 0 && arr != null) {
System.out.println(arr[0]);
}
}
}
Predict Output, if the above code is run with given command?
java Test
A. CompilationError
B. No Output is produced
C. NullPointerException is thrown at runtime
D. ArrayIndexOutOfBoundsException is thrown at runtime
Answer: B
Nitin Manjunath
Ln 177, Col 22
100%
Windows (CRLF)
UTF-8
19°C
Cloudy
Search
ENG
IN
22:44
09-12-2022


09_12_2022_snippets_session_notes - Notepad
File Edit View
abstract class Super {
public abstract void m1() throws IOException;
}
class Sub extends Super {
@Override
public void m1() throws IOException{
throw new FileNotFoundException();
}
}
public class Test {
public static void main(String[] args) {
Super s = new Sub();
try {
s.m1();
} catch (IOException e) {
System.out.print("A");
} catch(FileNotFoundException e) {
System.out.print("B");
} finally {
System.out.print("C");
}
}
Nitin Manjunath
Ln 201, Col 40
100%
Windows (CRLF)
UTF-8
19°C
Cloudy
Search
ENG
IN
22:52
09-12-2022


*09_12_2022_snippets_session_notes - Notepad
File Edit View
}
}
public class Test {
public static void main(String[] args) {
Super s = new Sub();
try {
s.m1();
} catch (IOException e) {
System.out.print("A");
} catch(FileNotFoundException e) {
System.out.print("B");
} finally {
System.out.print("C");
}
}
}
A. AC
B. BC
C. class sub gives compilation error
D. class Test gives compilation error
Answer: D
Nitin Manjunath
Ln 224, Col 10
100%
Windows (CRLF)
UTF-8
19°C
Cloudy
Search
ENG
IN
22:53
09-12-2022