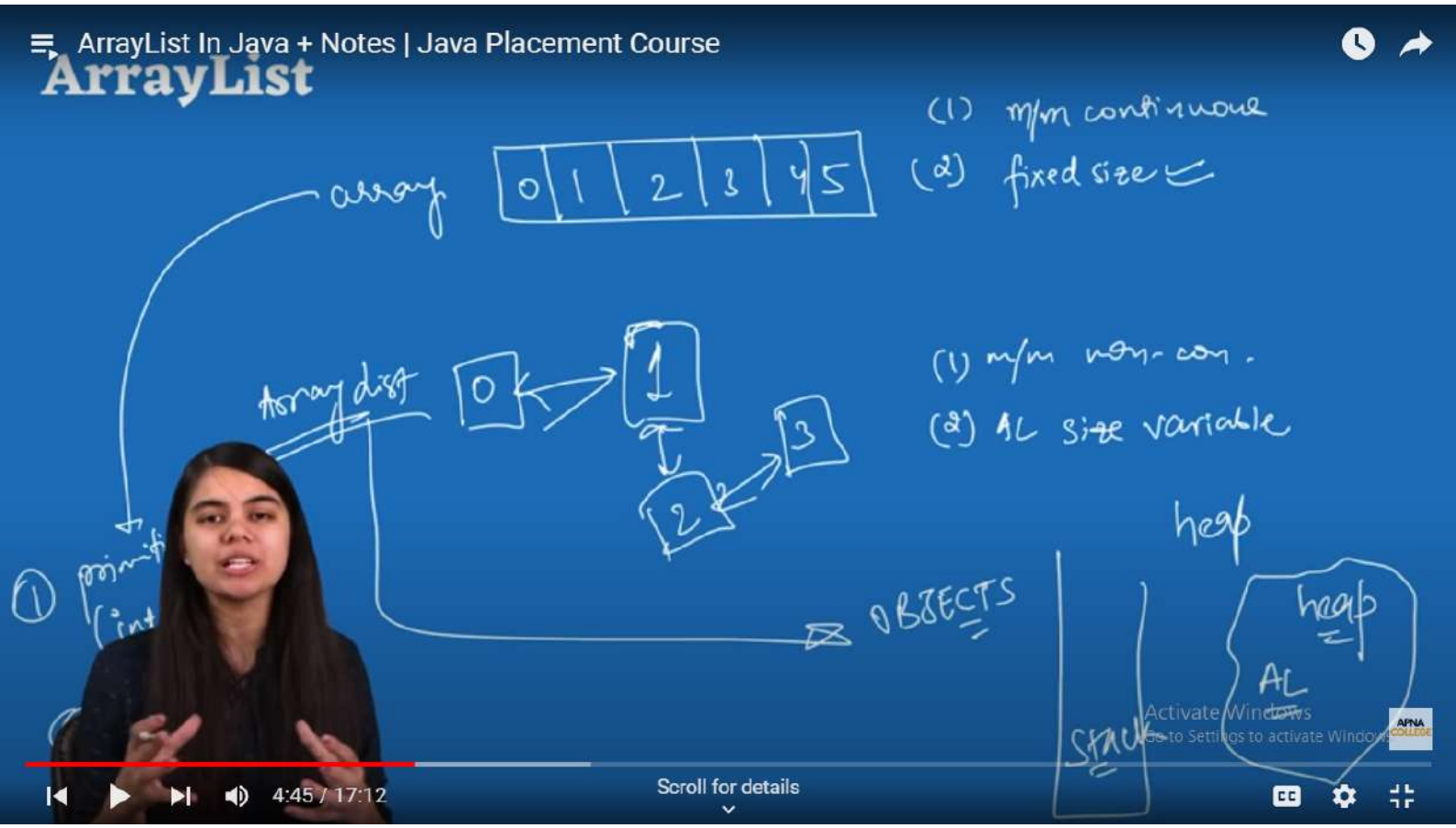
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ArrayList
array
0 1 2 3 4 5
(1) m/m continuous
(2) fixed size
array dist
0 1 2 3
(1) m/m non-con.
(2) AL size variable
heap
OBJECTS
heap
AL
stack
Activate Windows
Go to Settings to activate Windows.
4:45 / 17:12
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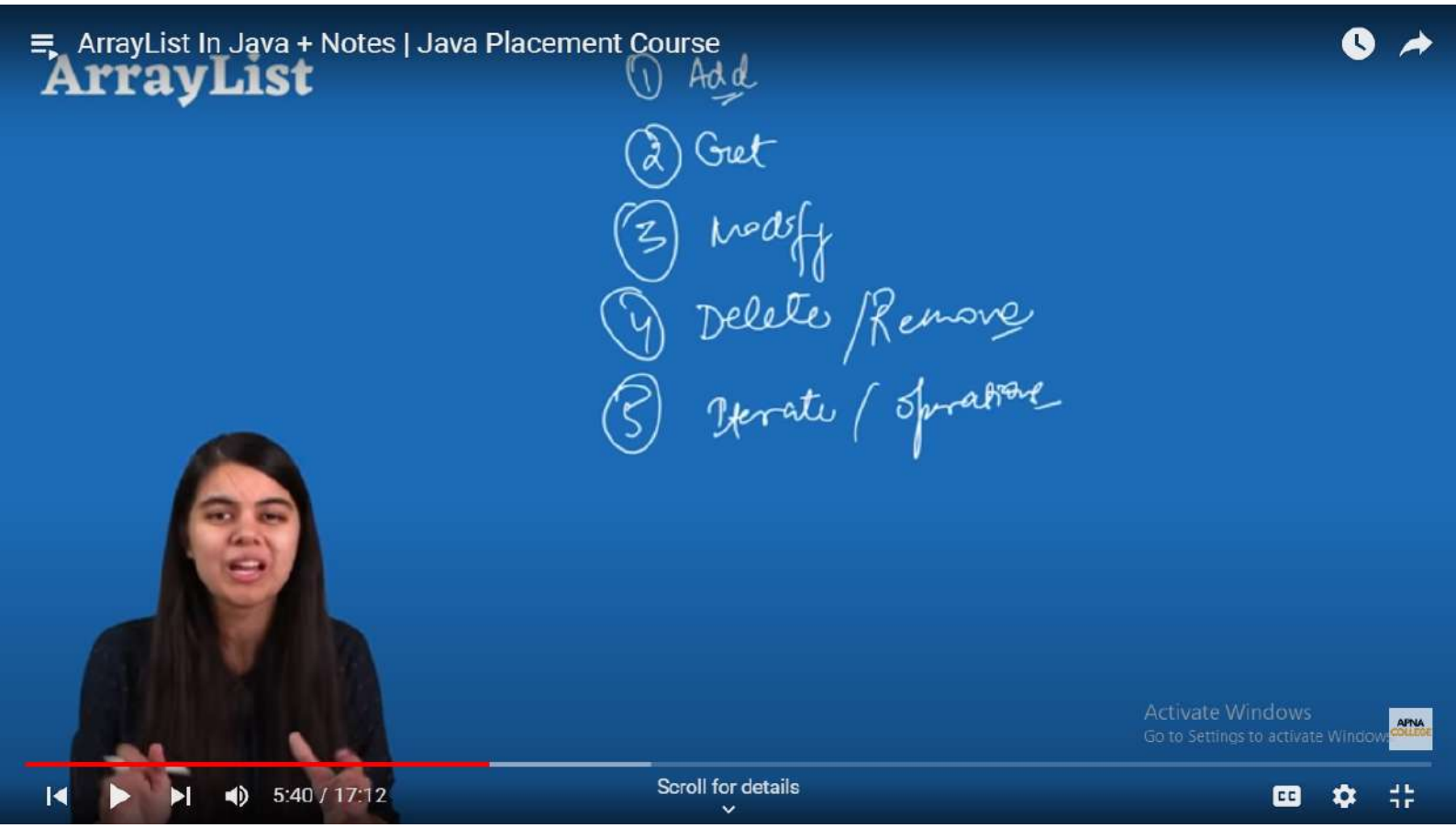
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ArrayList
1 Add
2 Get
3 Modify
4 Delete / Remove
5 Iterate / Operations
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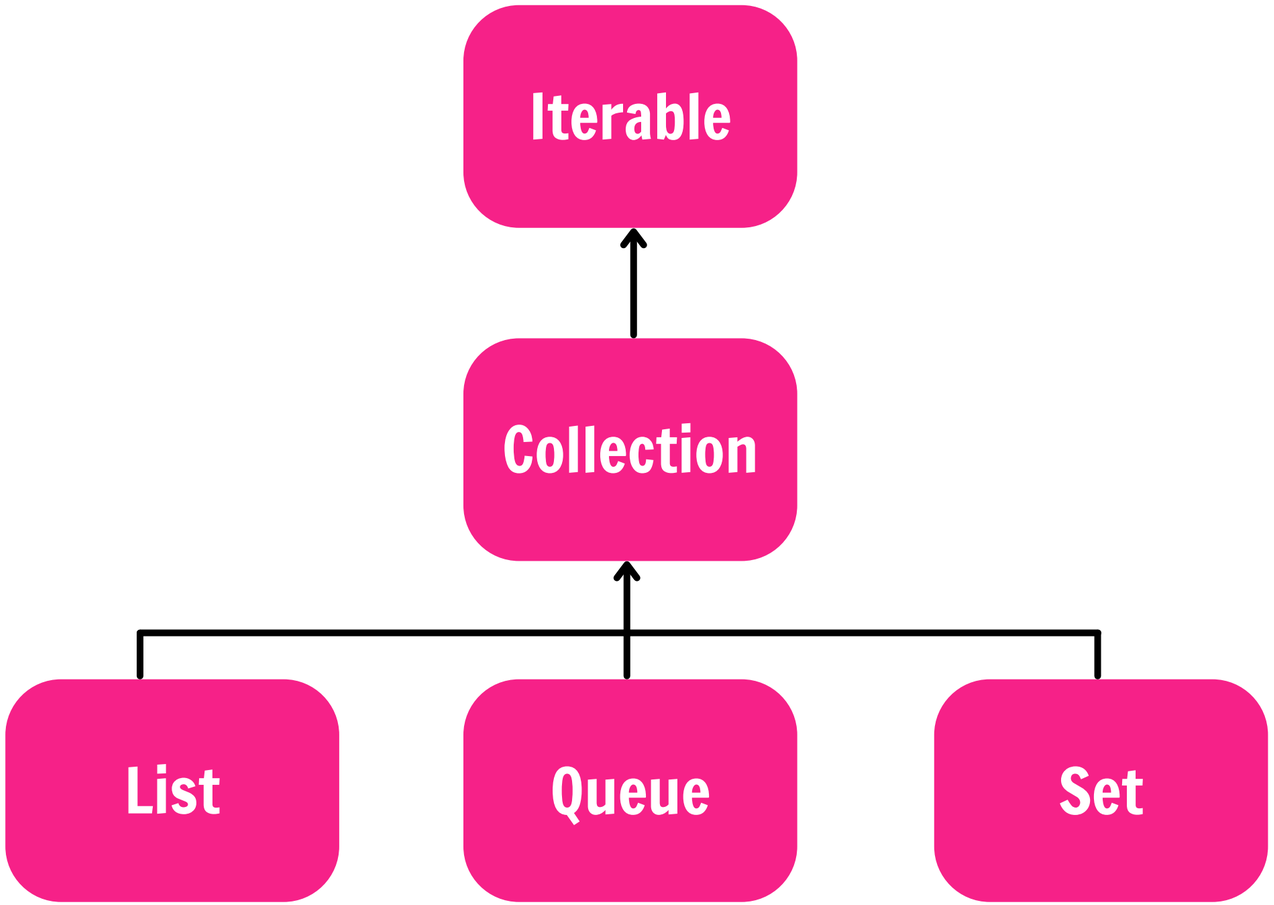
JAVA

Collection Framework

Collection of Classes & Interfaces

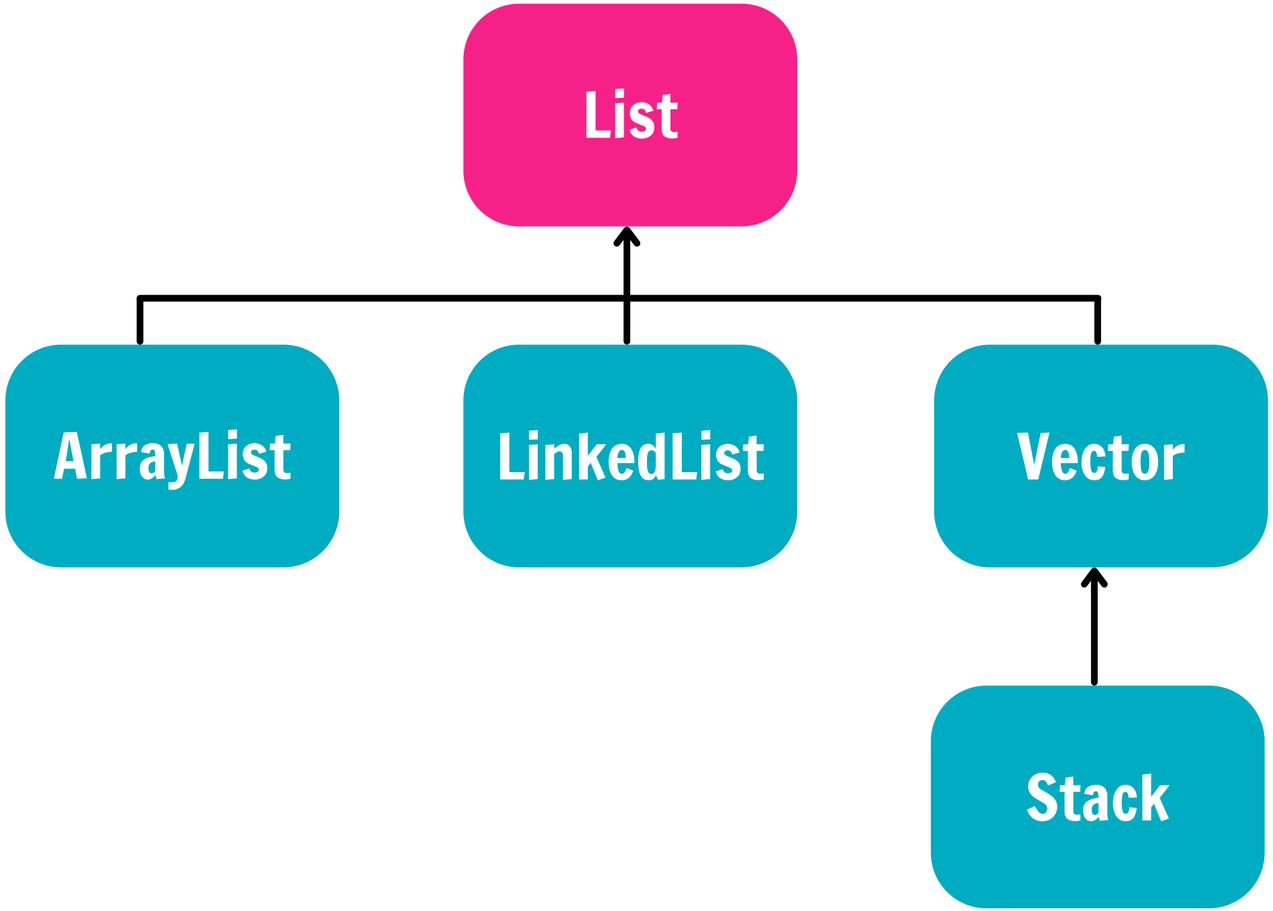


JAVA

Methods on Collections

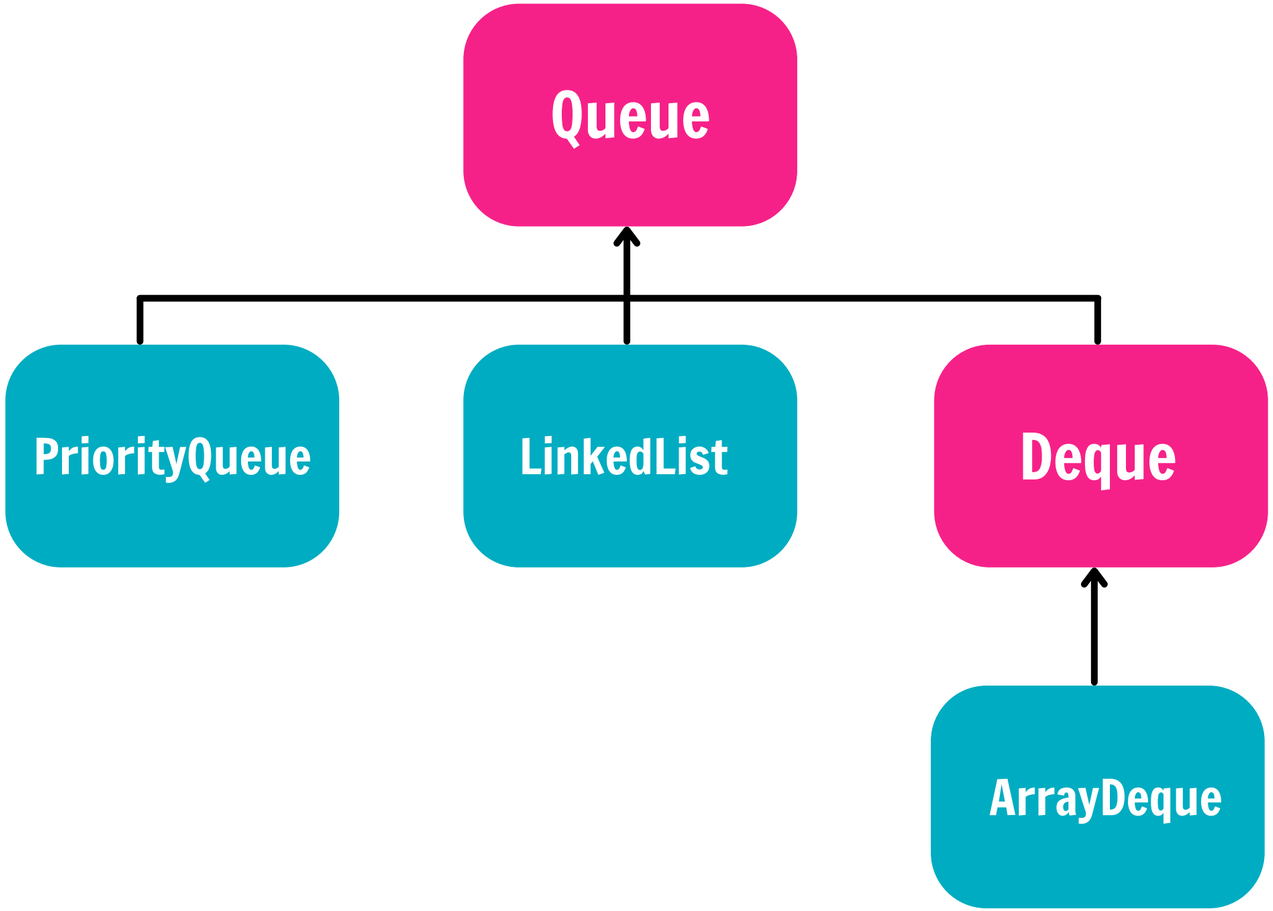
- add
- size
- remove
- iterate
- addAll
- removeAll
- clear

List Interface

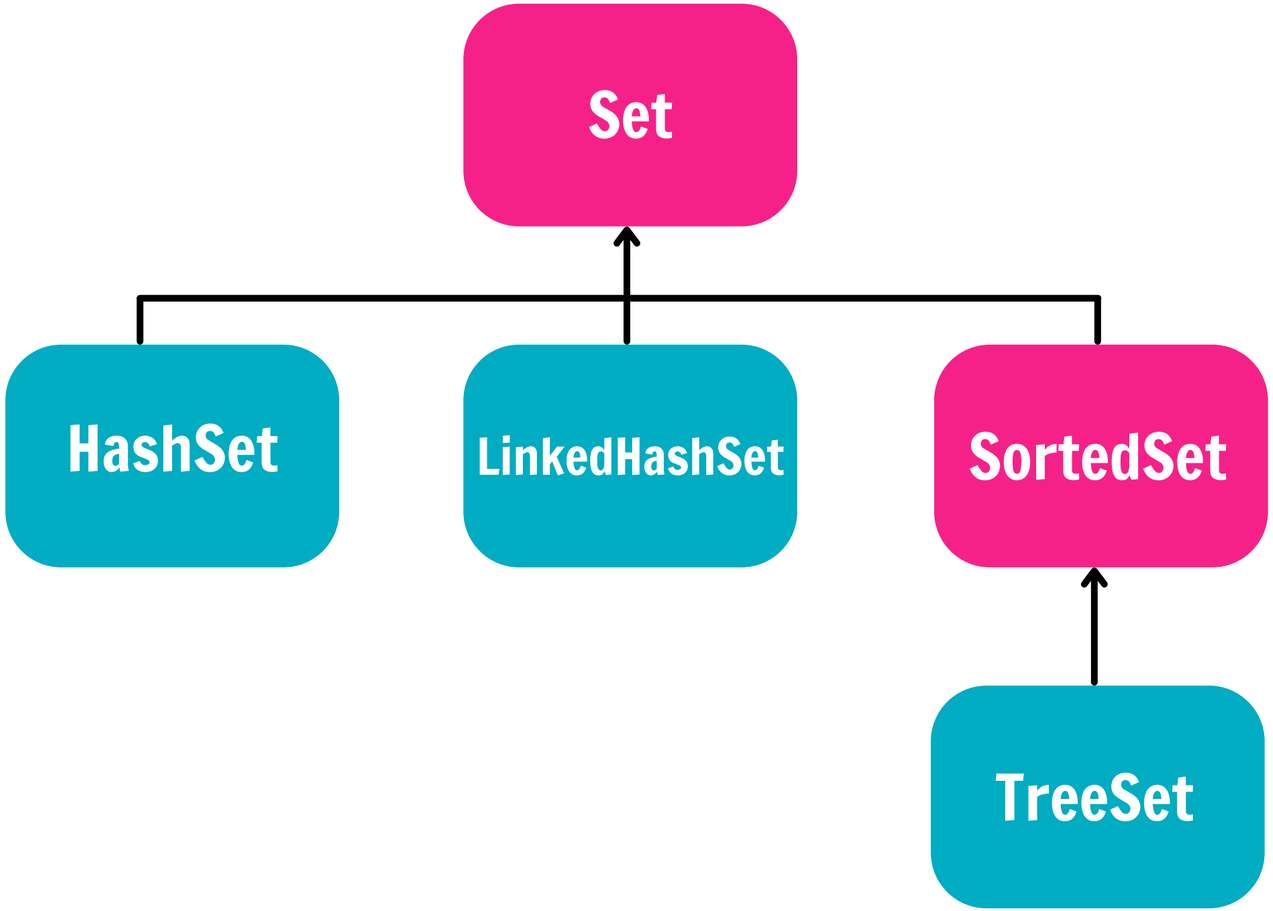


JAVA

Queue Interface（FIFO）

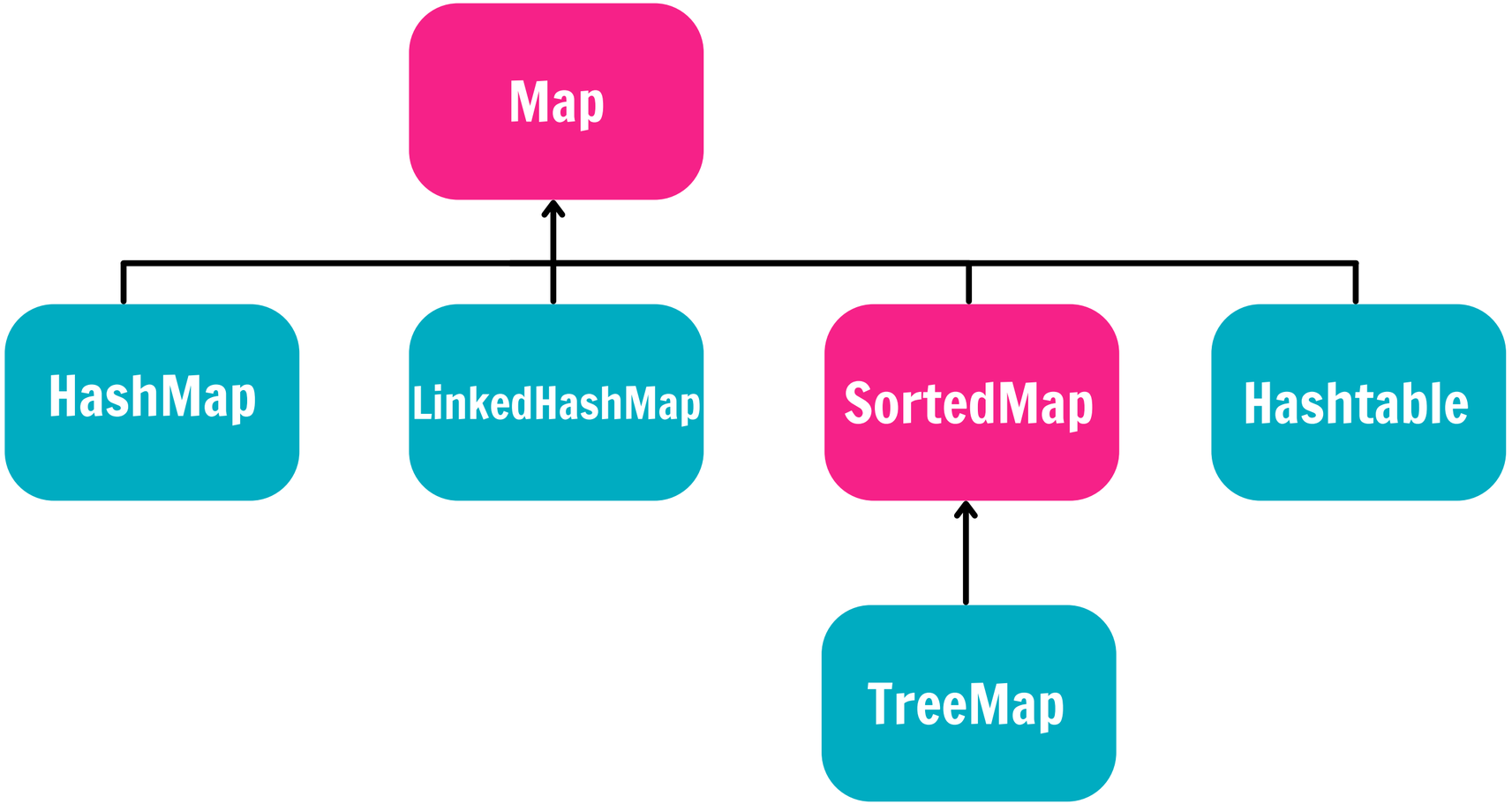


Set Interface



JAVA

Map Interface

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Linked List
"This"
"is"
"list"
"a"
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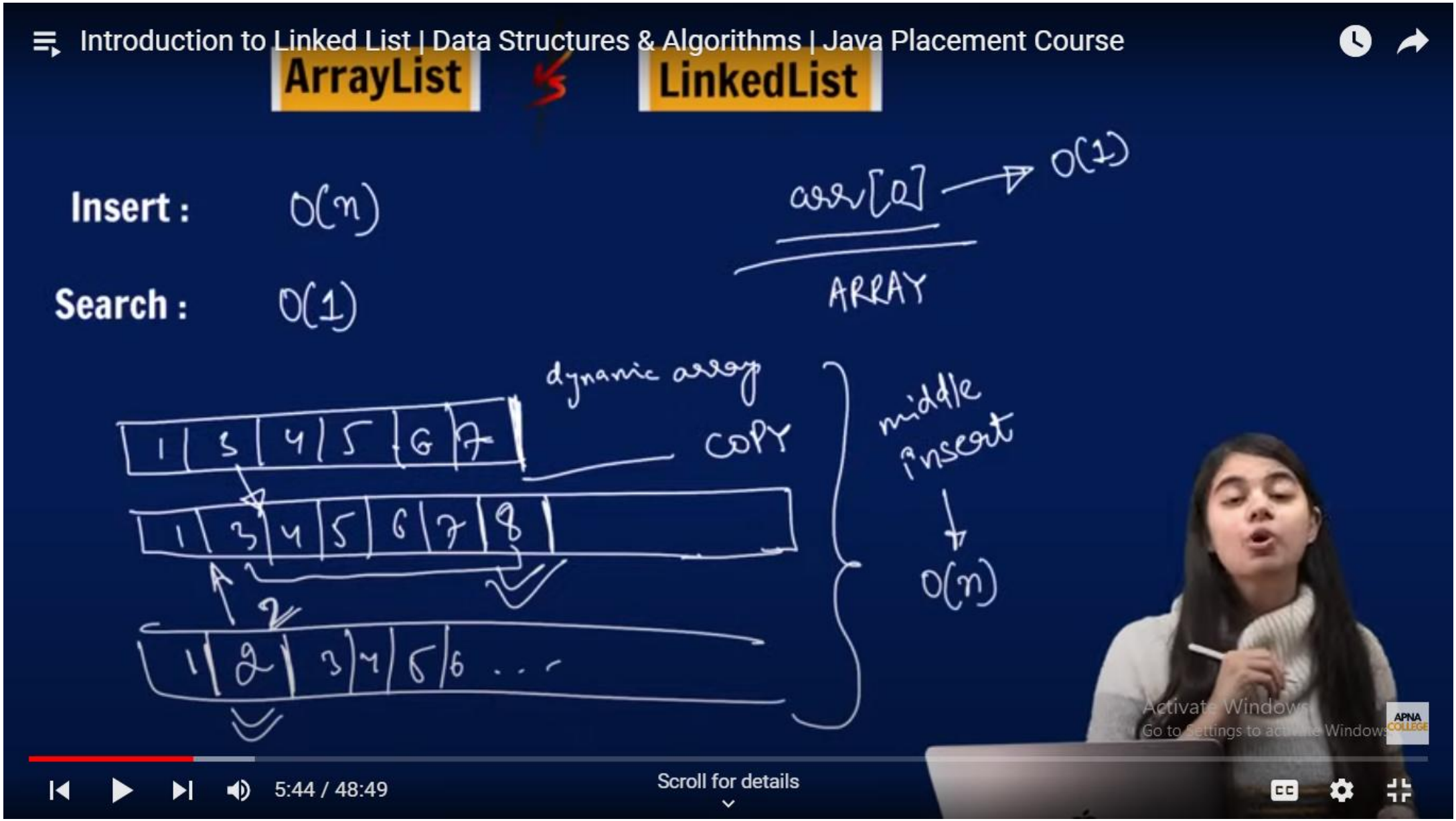
Go to Settings to activate Windows.
APNA COLLEGE
2:49 / 48:49
Scroll for details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ArrayList
LinkedList
Insert : O(n)
Search : O(1)
arr[0] → O(1)
ARRAY
dynamic array
copy
middle insert
O(n)
5:44 / 48:49
Scroll for details
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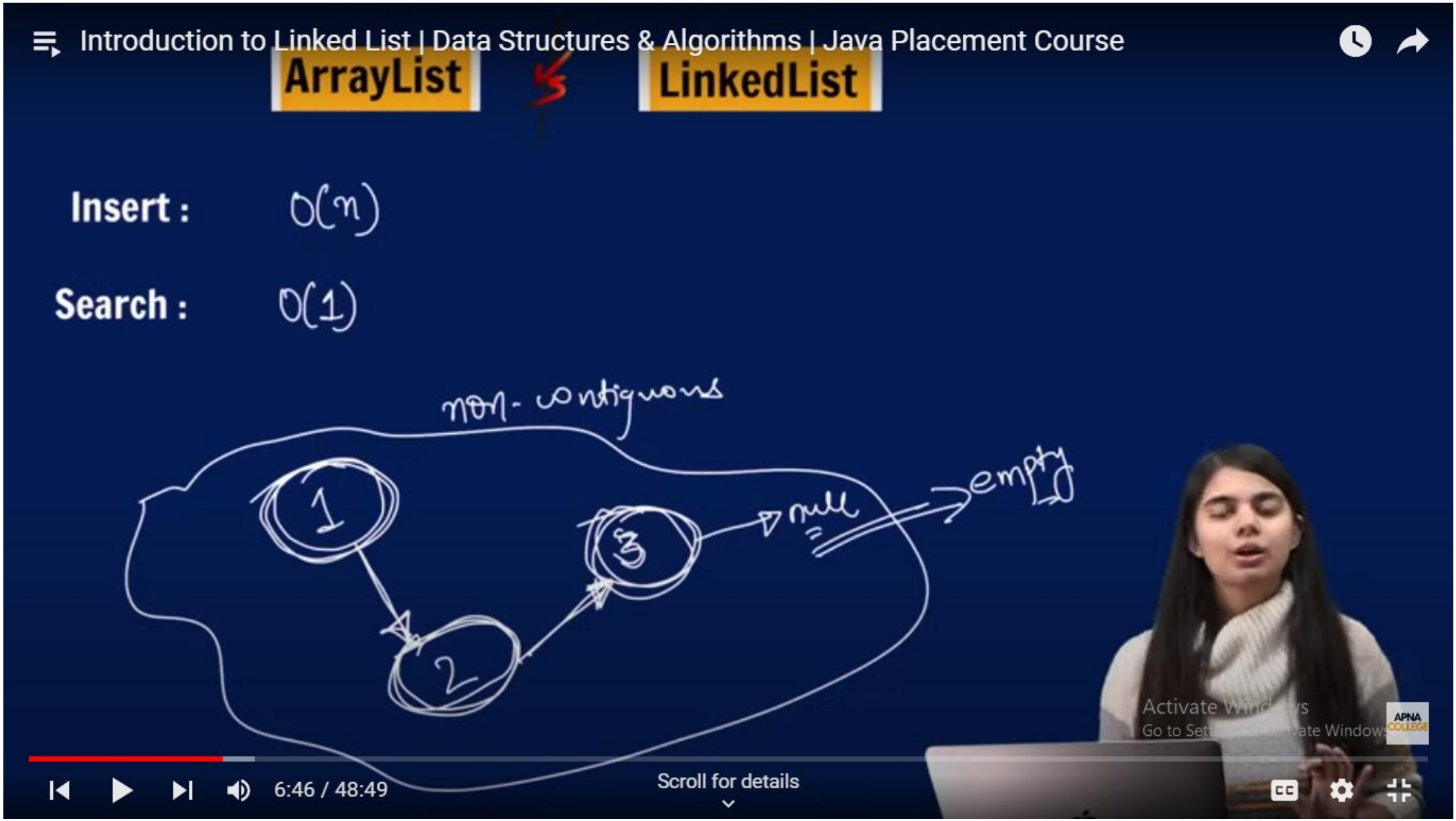

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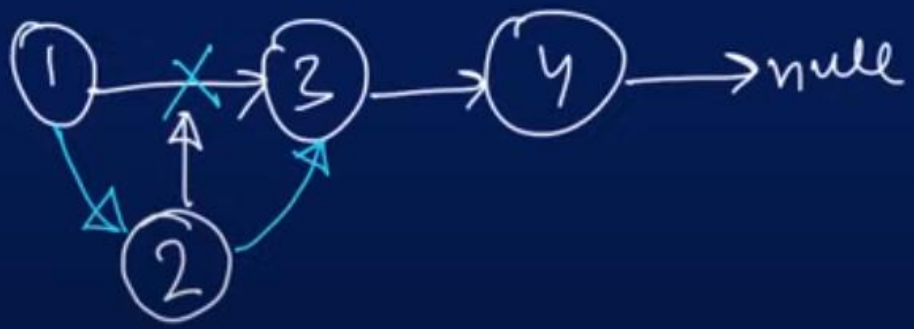
ArrayList vs LinkedList

Insert : O(n)

Search : O(1)



7:21 / 48:49

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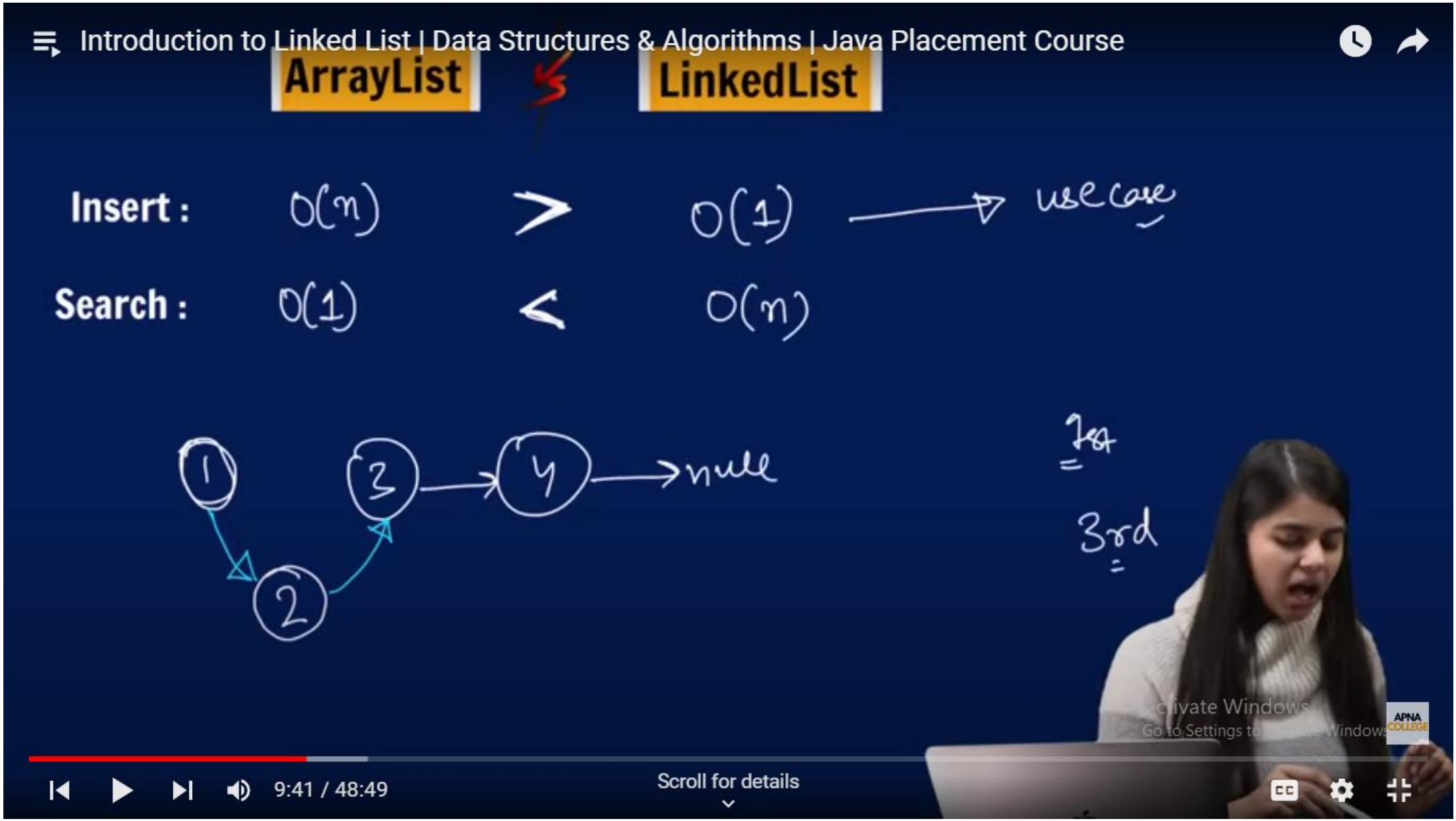
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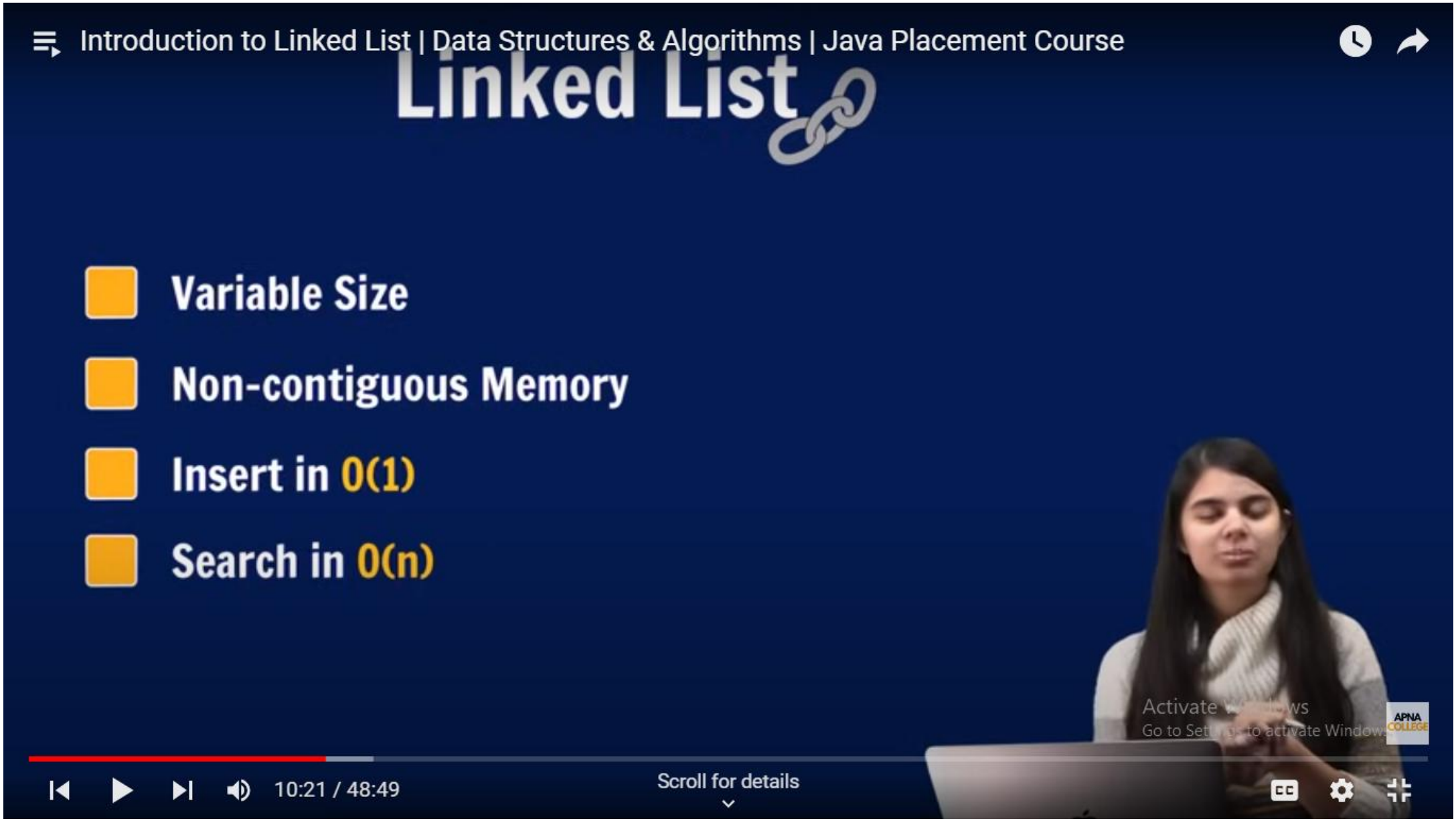
ArrayList
LinkedList
Insert : O(n) > O(1) use case
Search : O(1) < O(n)
1
2
3
4
null
1st
3rd
9:41 / 48:49
Scroll for details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Linked List
Variable Size
Non-contiguous Memory
Insert in O(1)
Search in O(n)
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10:21 / 48:49
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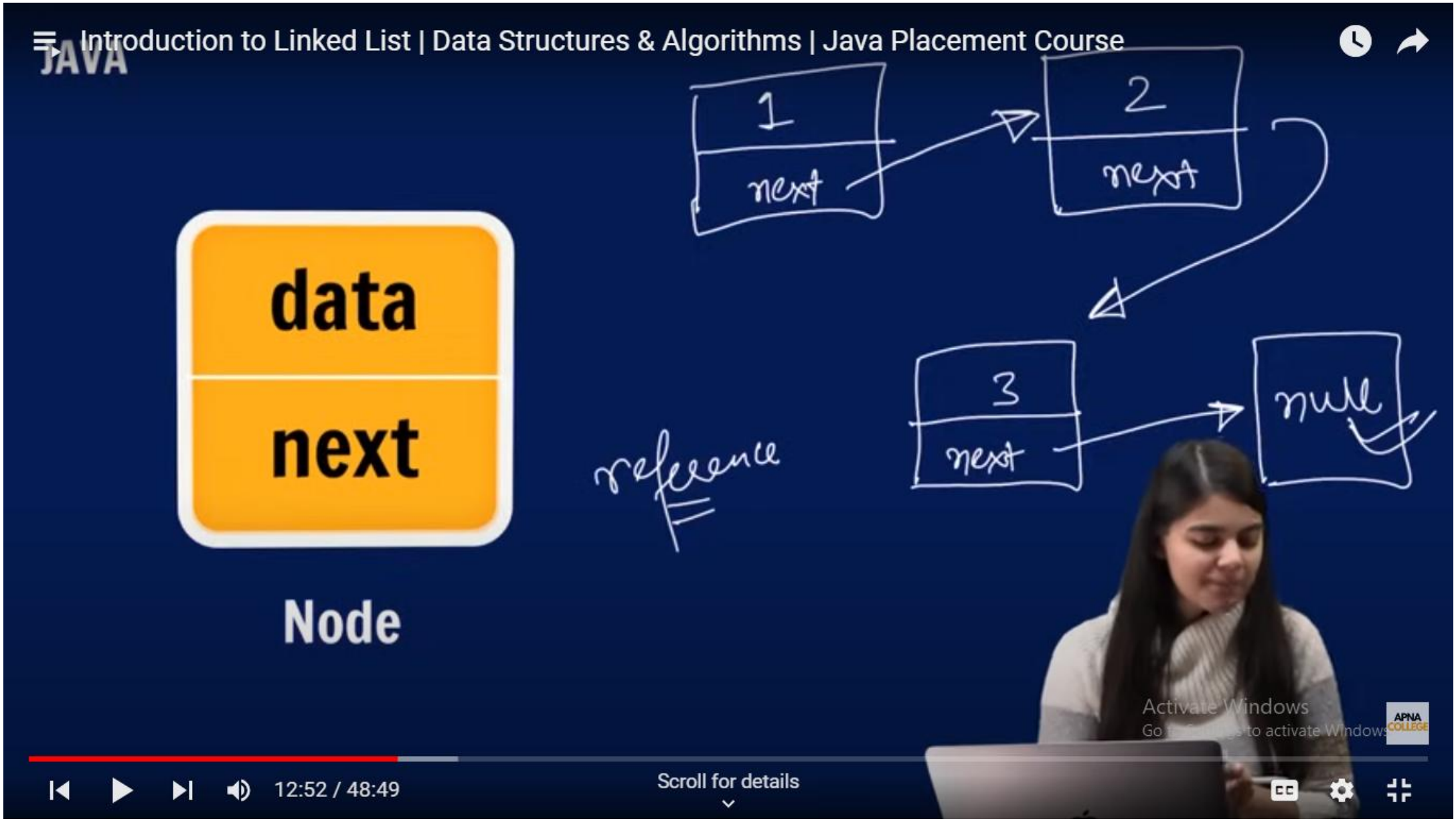
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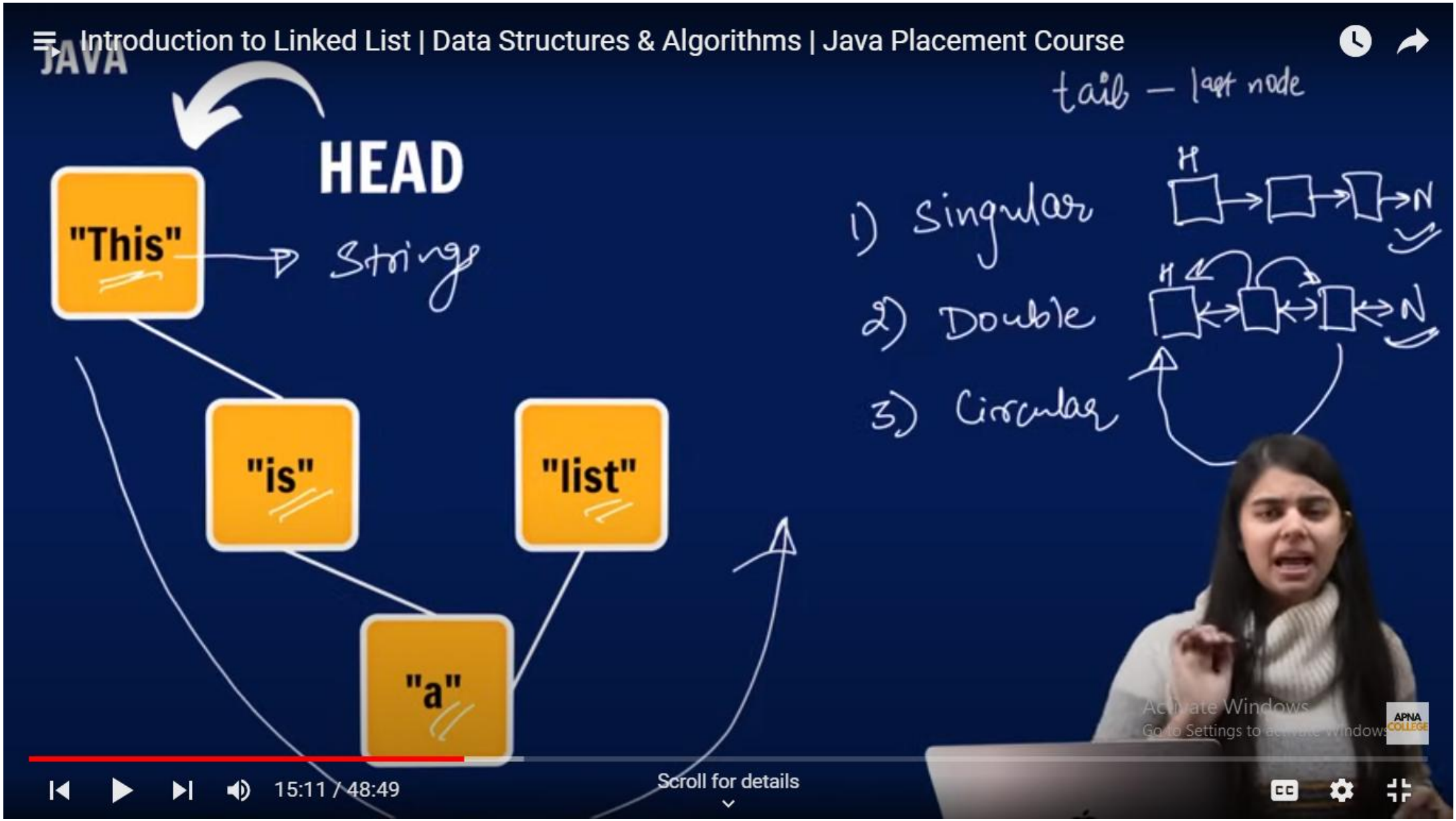
JAVA
1
next
2
next
3
next
null
reference
data
next
Node
Activate Windows
APNA COLLEGE
12:52 / 48:49
Scroll for details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JAVA
HEAD
"This"
Strings
"is"
"list"
"a"
tail – last node
1) Singular
2) Double
3) Circular
H
N
15:11 / 48:49
Scroll for details
Activate Windows
Go to Settings to activate Windows.
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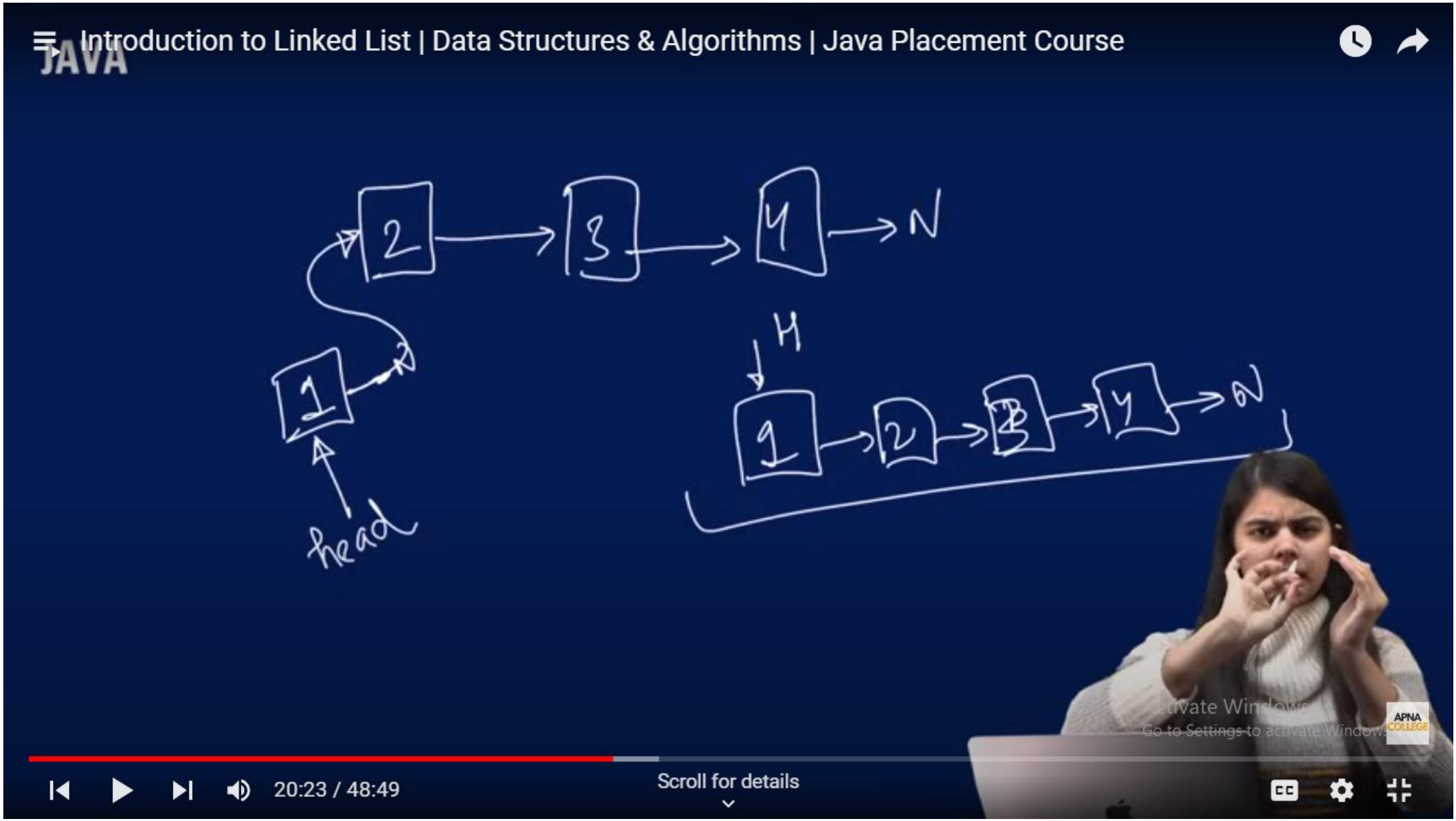
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JAVA
2
3
4
N
1
head
H
1
2
3
4
N
20:23 / 48:49
Scroll for details
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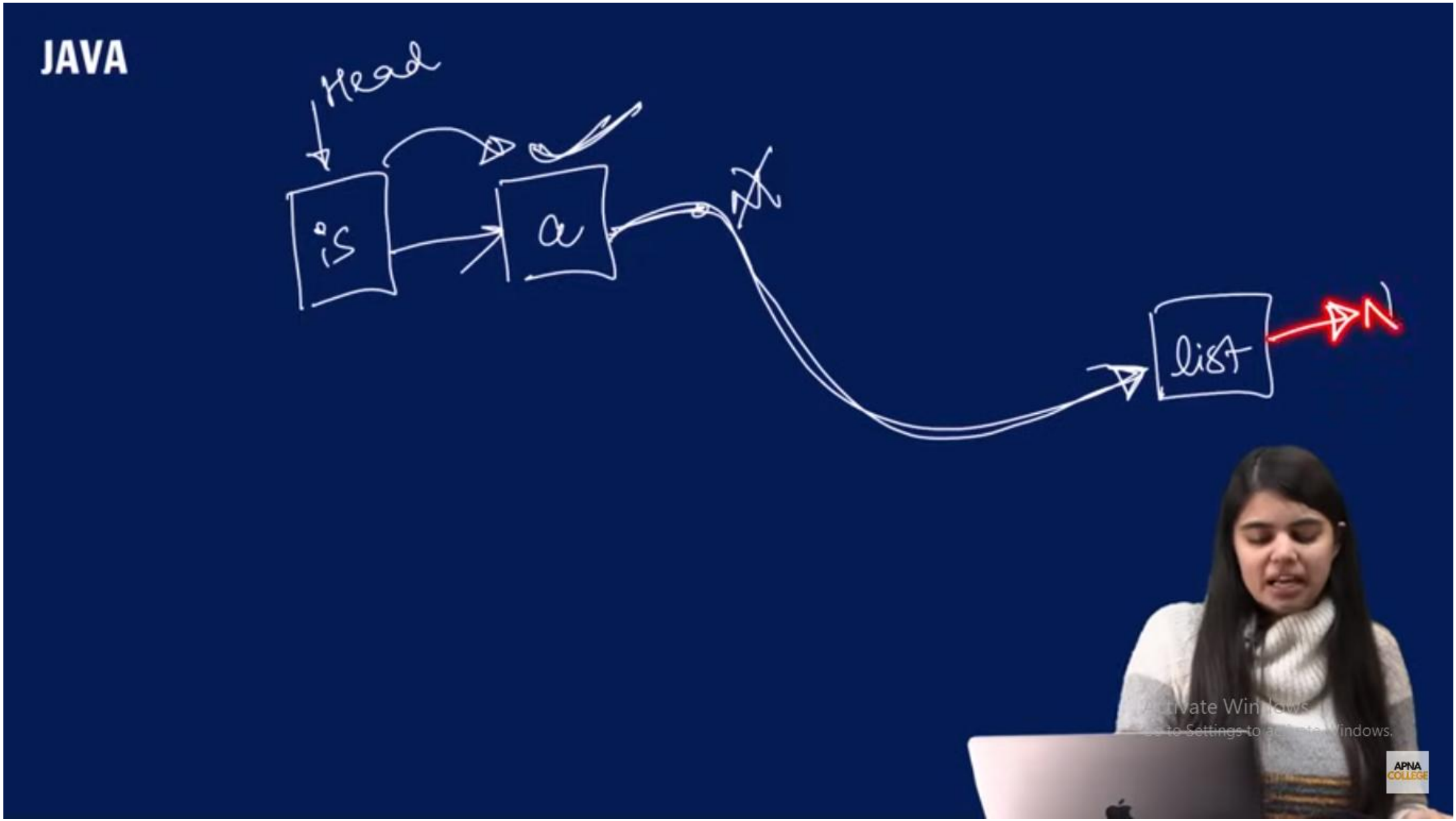
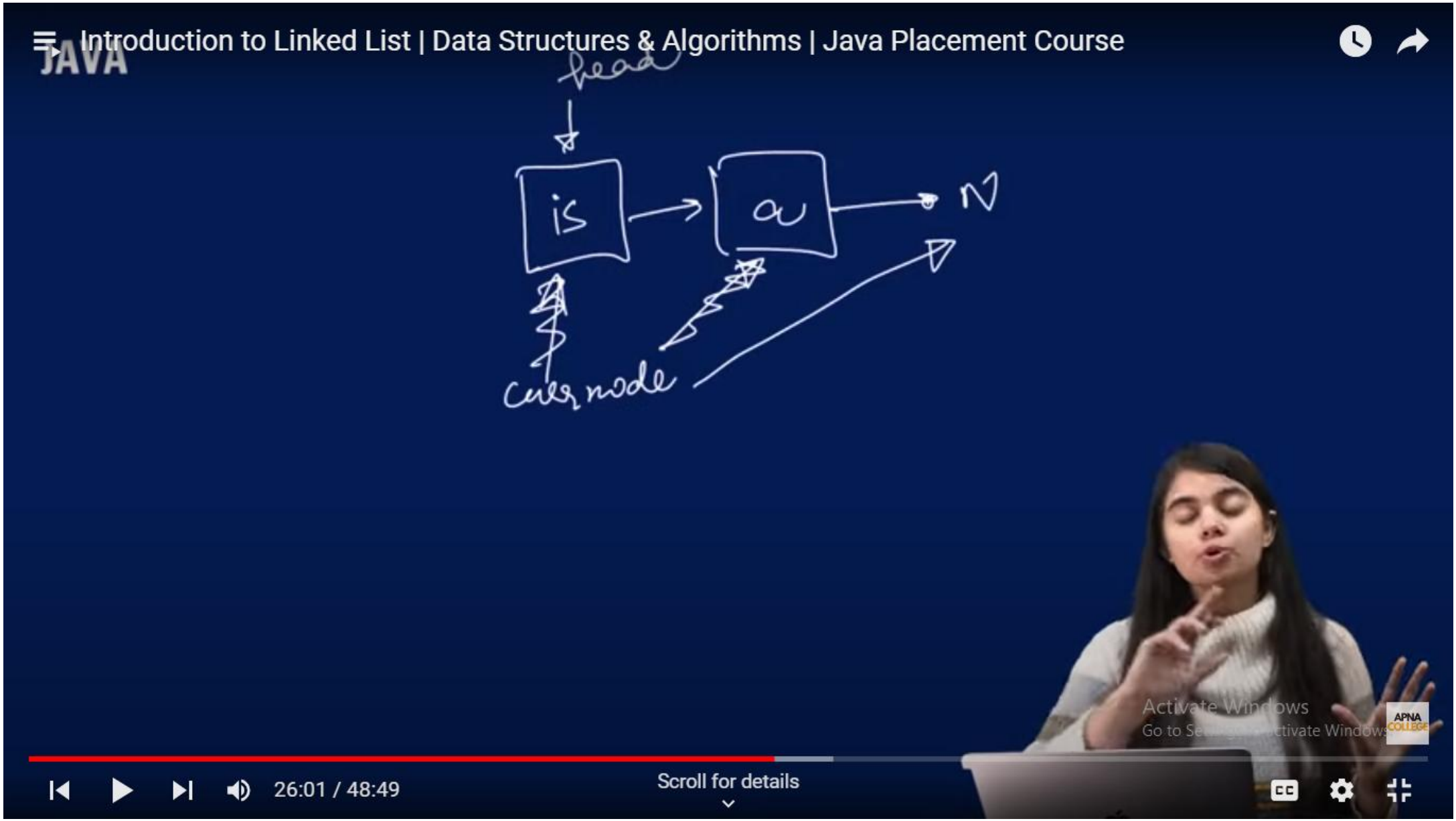

JAVA
Head
is
a
list
N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JAVA
head
is
au
N
Cur node
Activate Windows
Go to Settings to activate Windows.
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26:01 / 48:49
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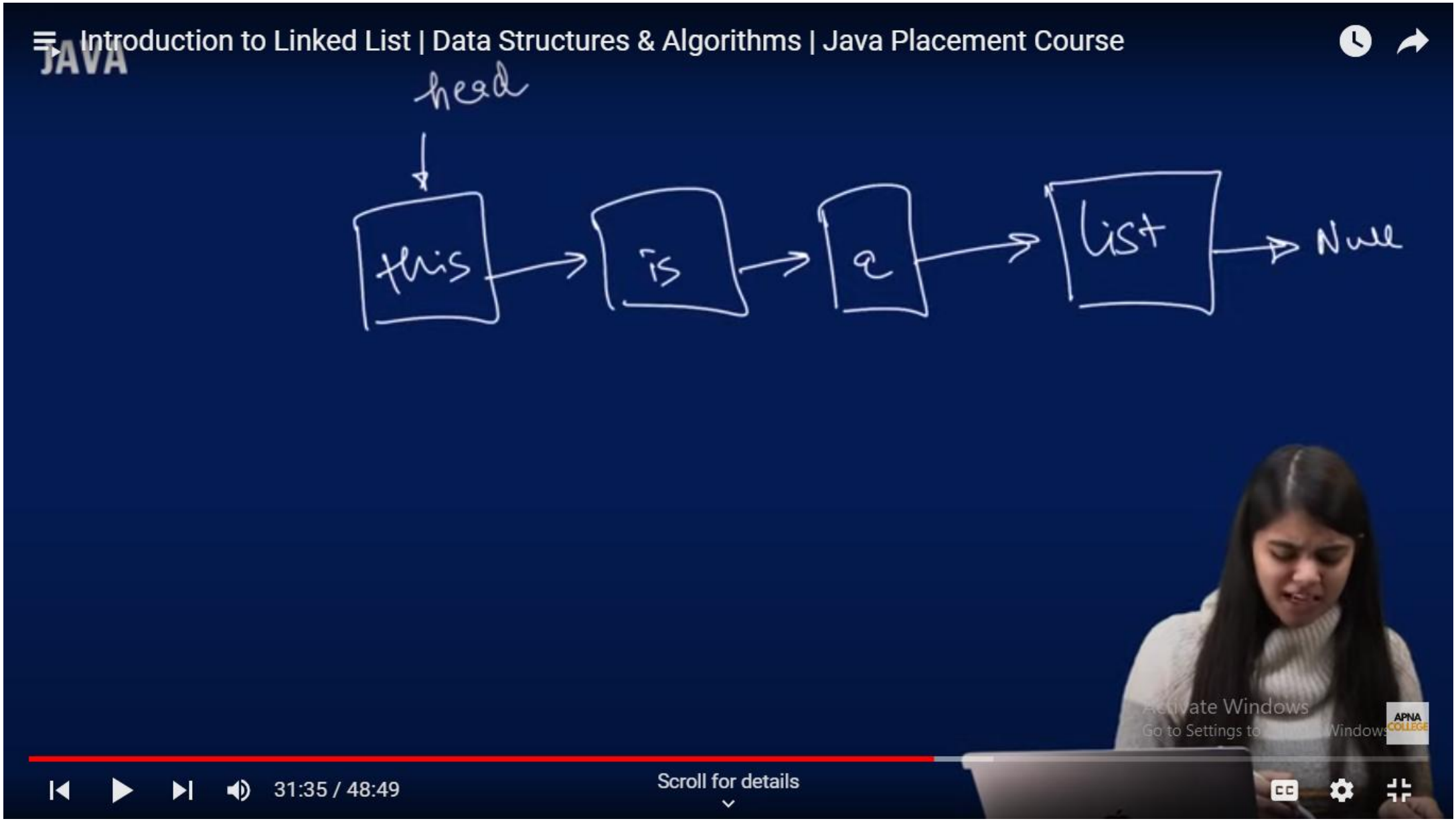
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JAVA
head
this
is
a
list
Null
Activate Windows
Go to Settings to activate Windows.
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31:35 / 48:49
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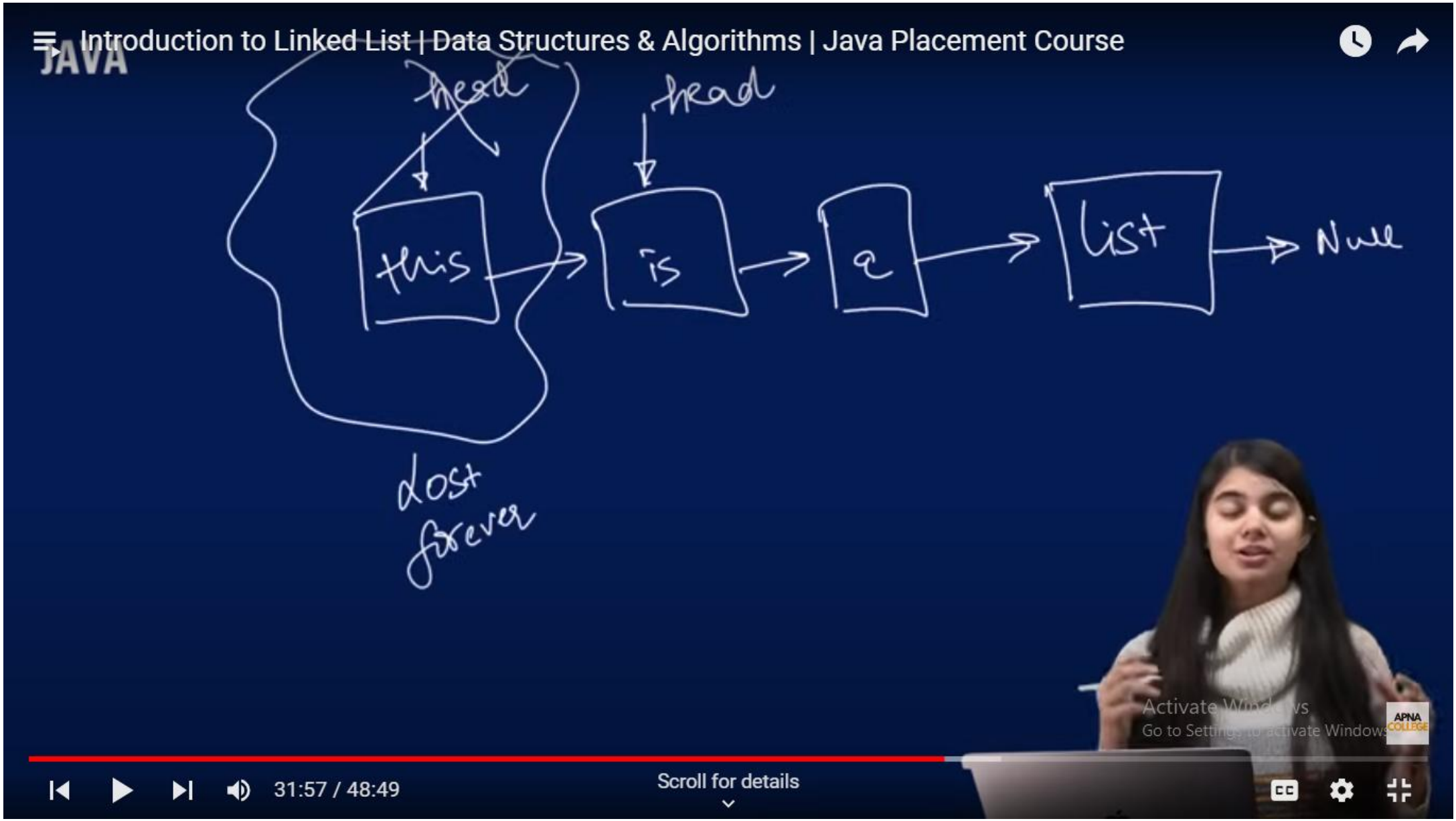
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JAVA
head
head
this
is
a
list
Null
lost
forever
Activate Windows
Go to Settings to activate Windows.
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31:57 / 48:49
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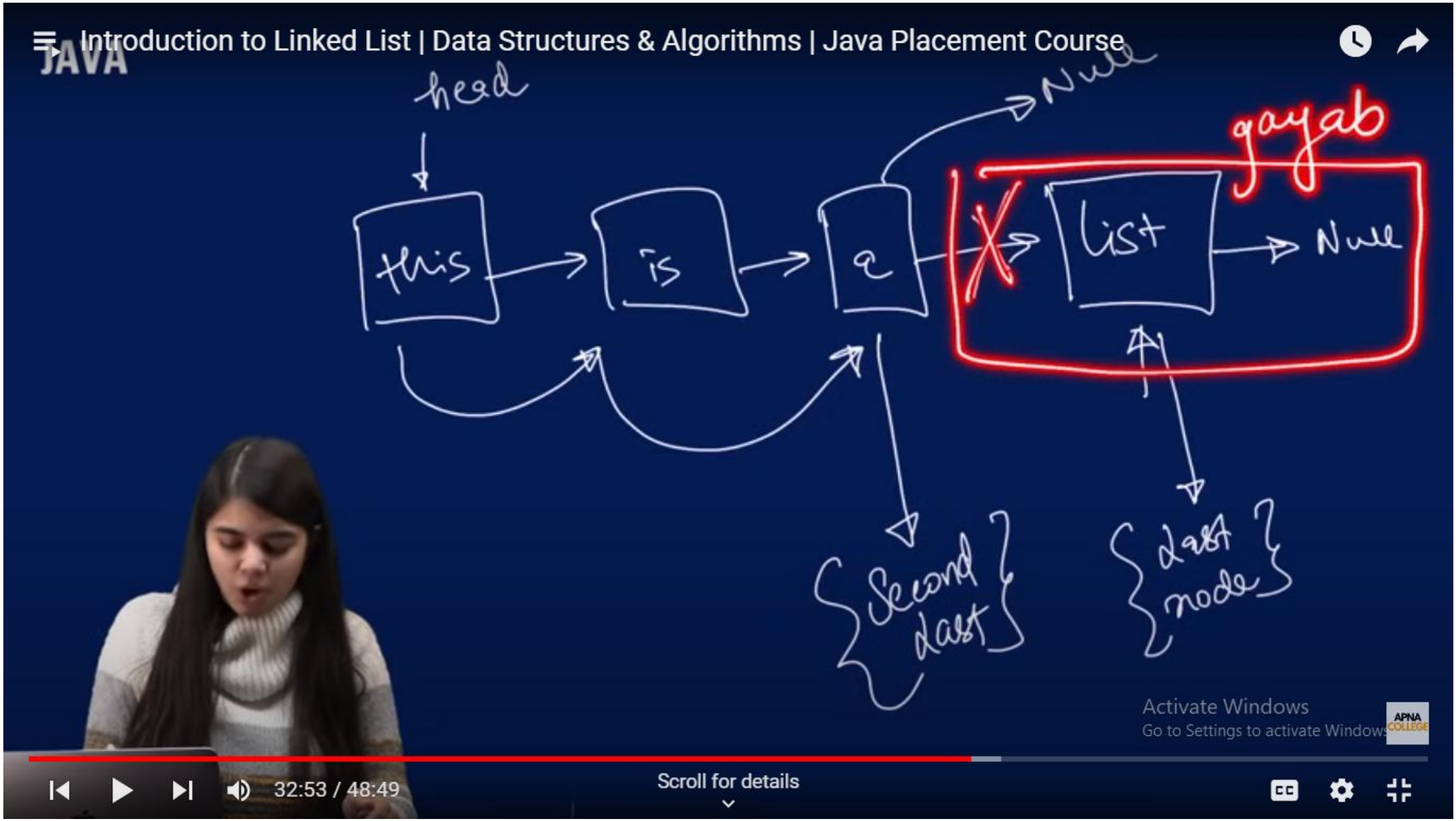
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JAVA
head
this
is
a
Null
gayab
list
Null
second last
last node
Activate Windows
Go to Settings to activate Windows.
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32:53 / 48:49
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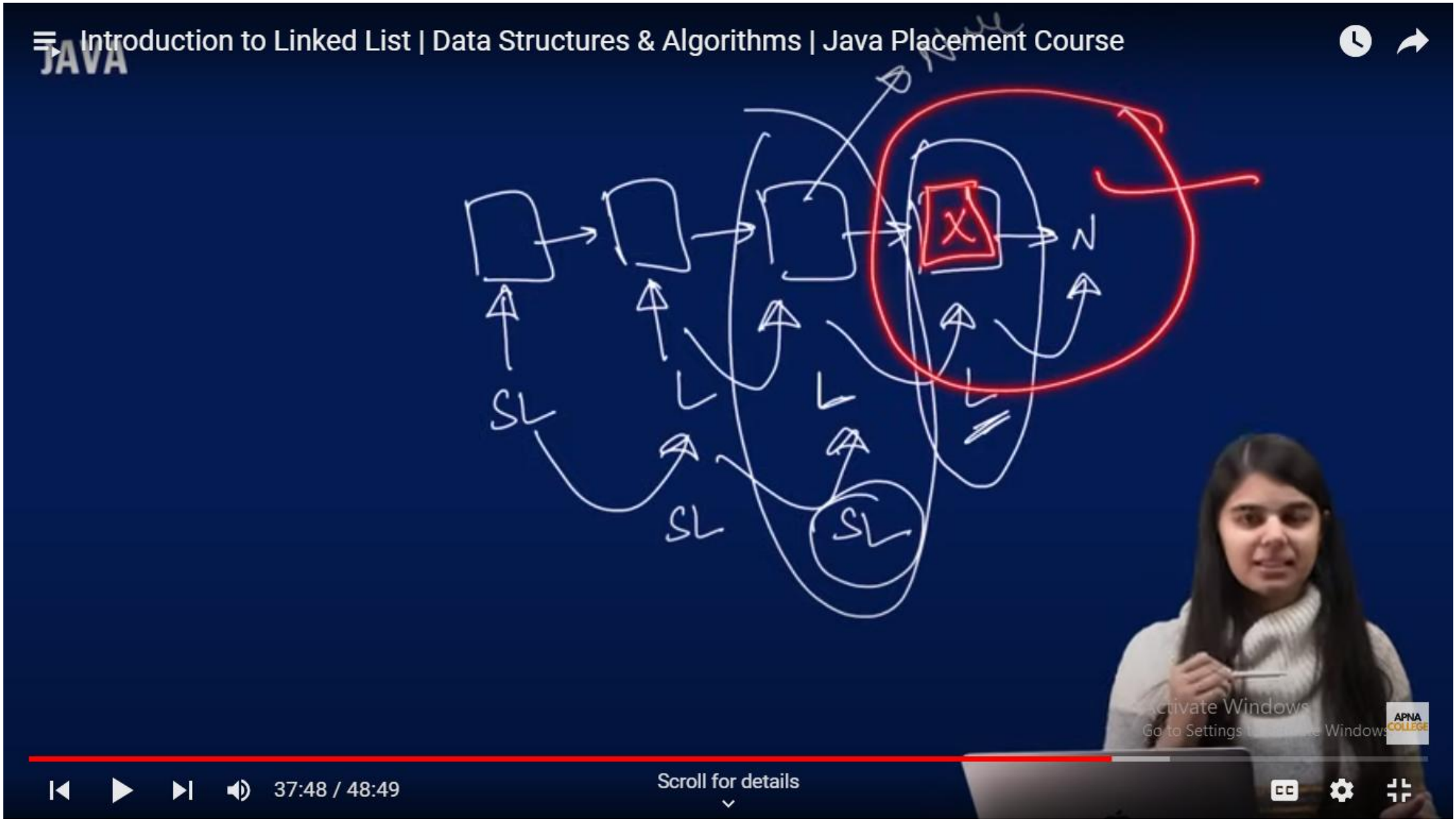
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JAVA
X
N
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L
L
SL
SL
37:48 / 48:49
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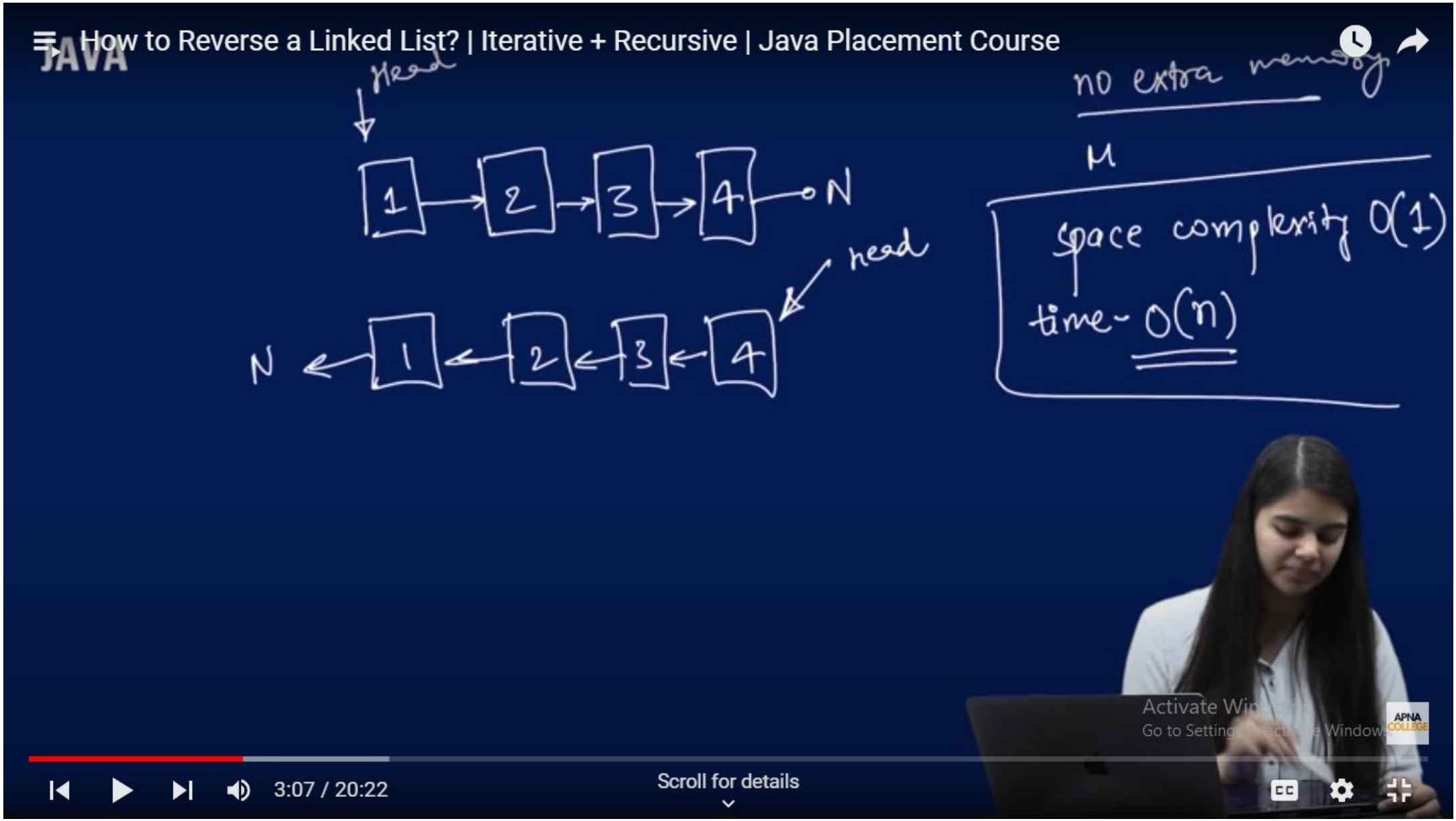
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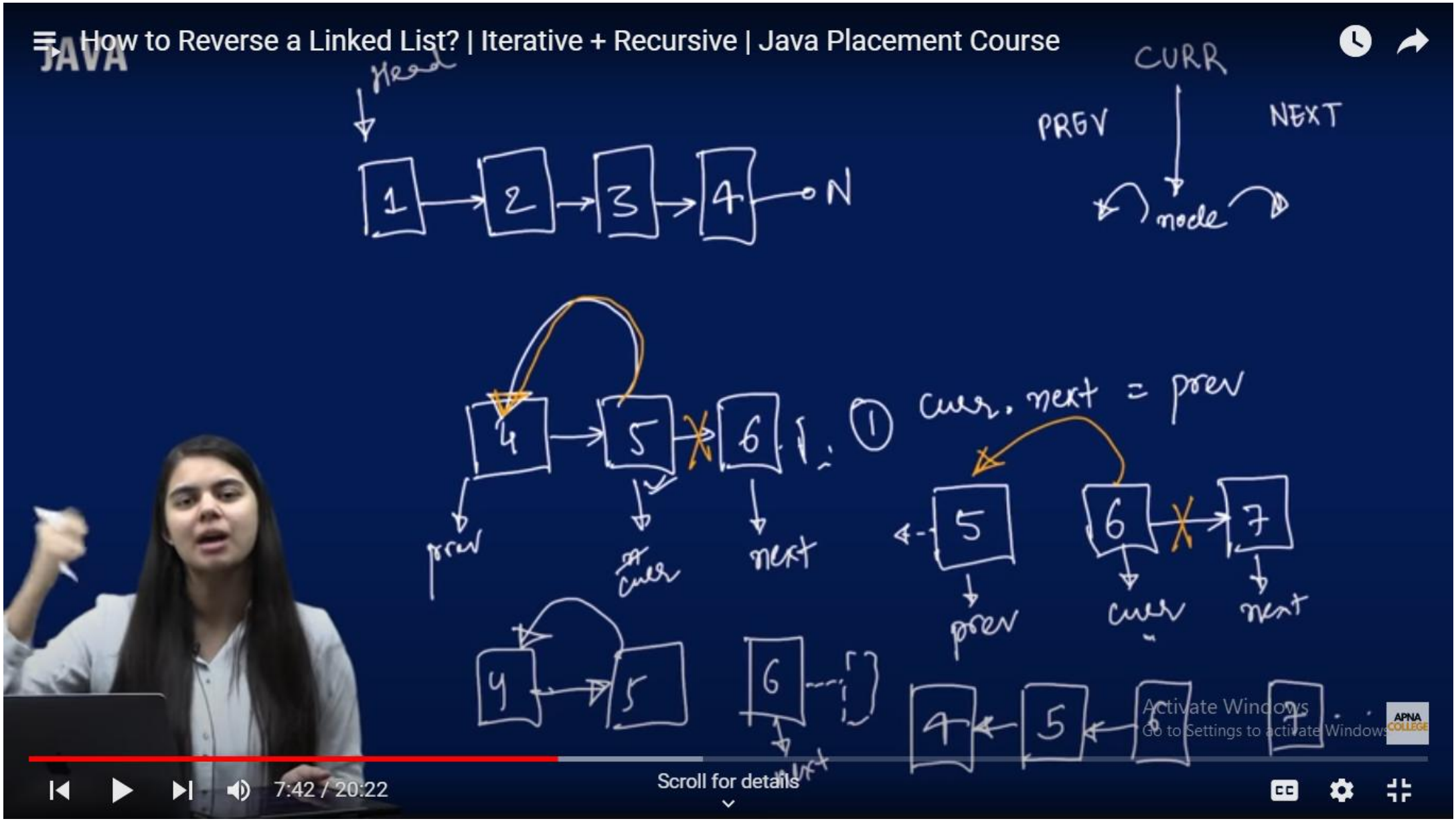
JAVA
Head
1
2
3
4
N
head
N
1
2
3
4
no extra memory
M
space complexity O(1)
time- O(n)
3:07 / 20:22
Scroll for details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JAVA
Head
1
2
3
4
N
CURR
PREV
NEXT
node
curr.next = prev
prev
curr
next
5
6
7
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7:42 / 20:22
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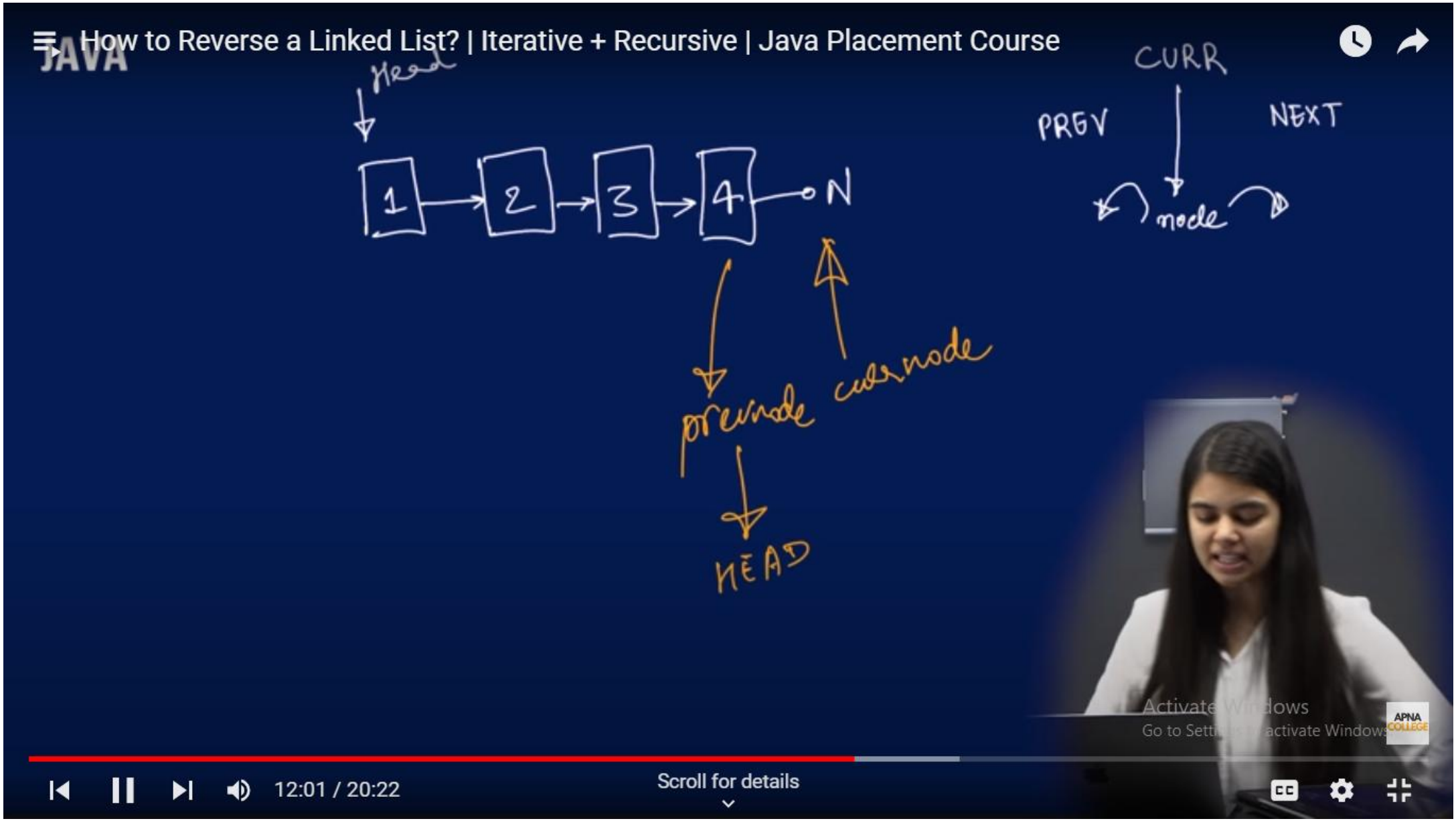
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JAVA
Head
1
2
3
4
N
CURR
PREV
NEXT
node
prevnode
currnode
HEAD
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12:01 / 20:22
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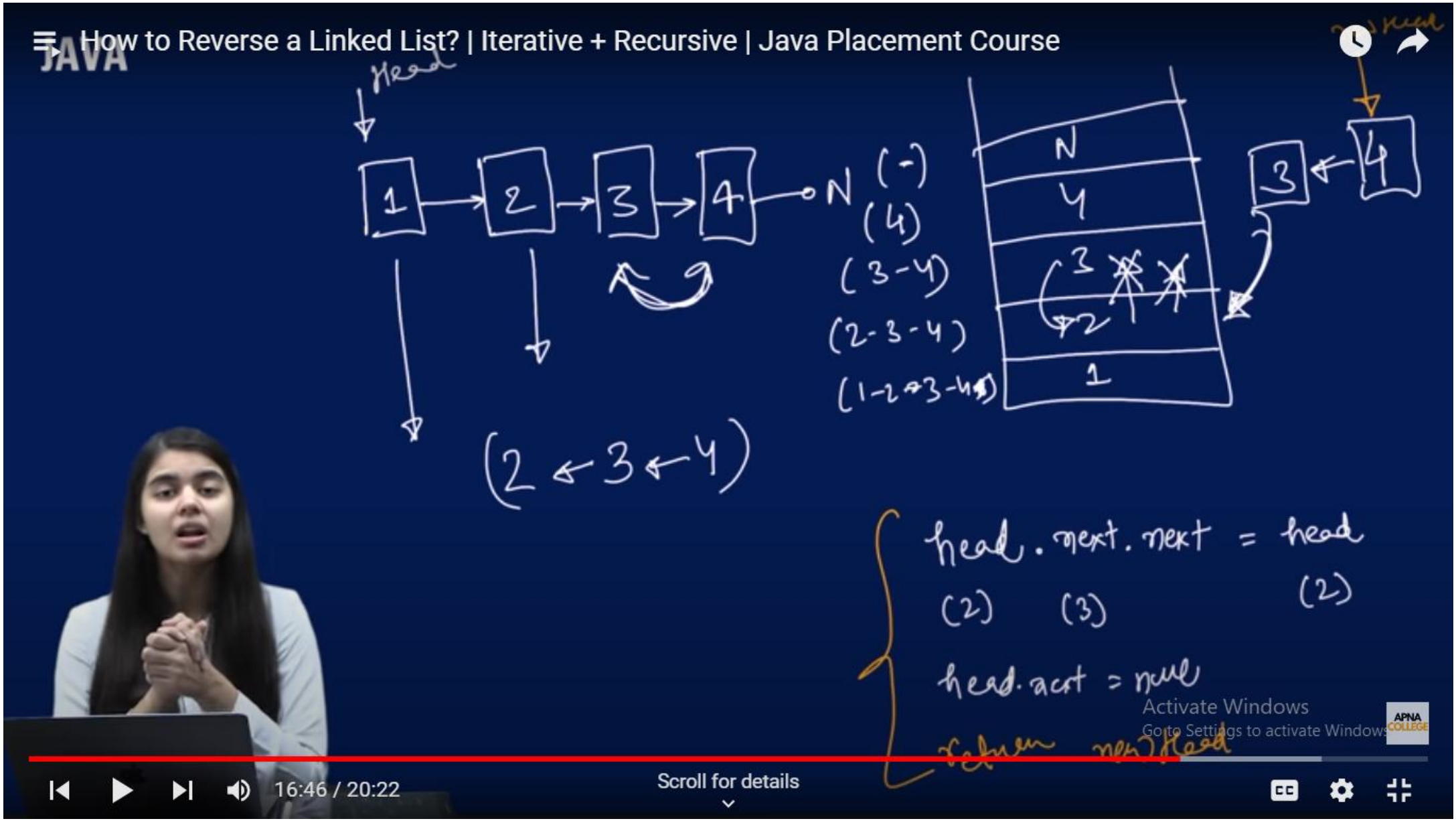
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JAVA
Head
1
2
3
4
N
(-)
(4)
(3-4)
(2-3-4)
(1-2-3-4)
N
4
3
2
1
3
4
(2←3←4)
head.next.next = head
(2) (3) (2)
head.next = null
16:46 / 20:22
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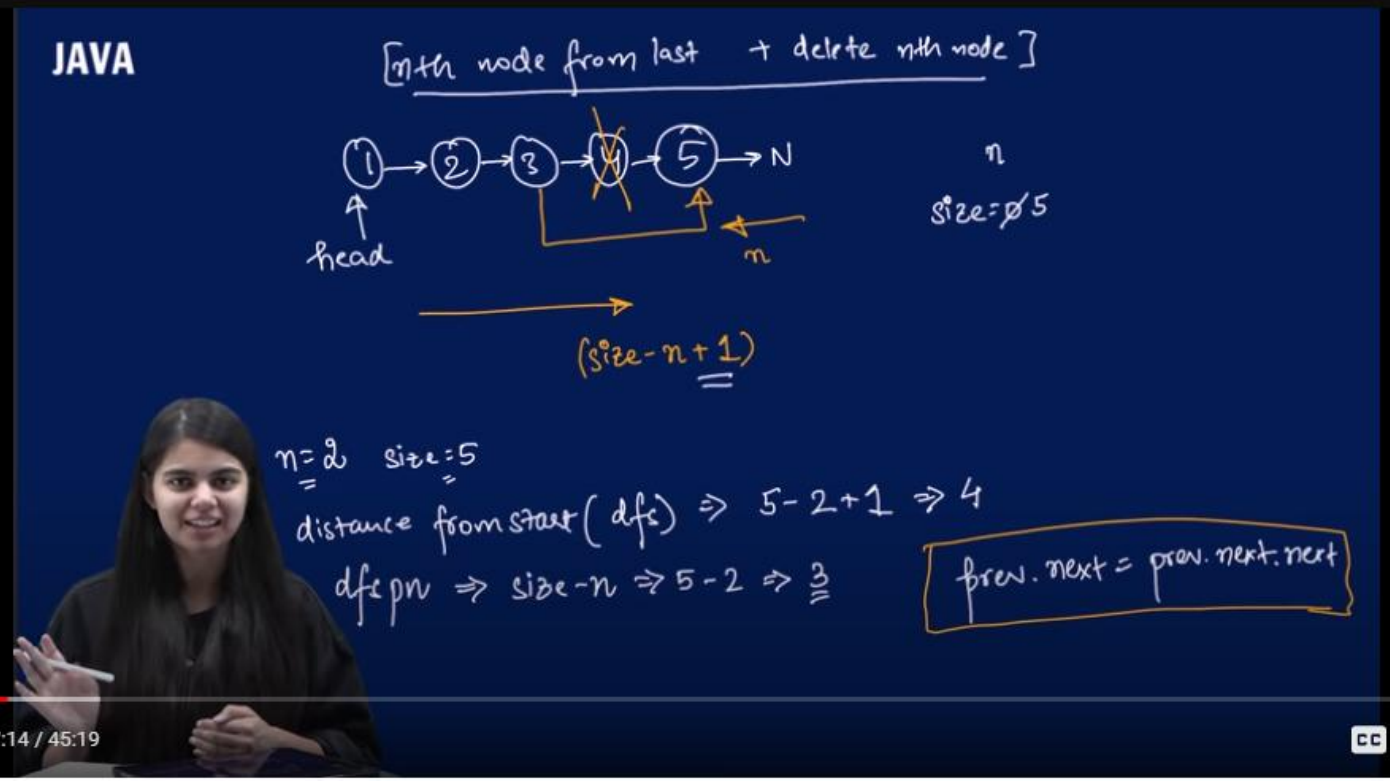

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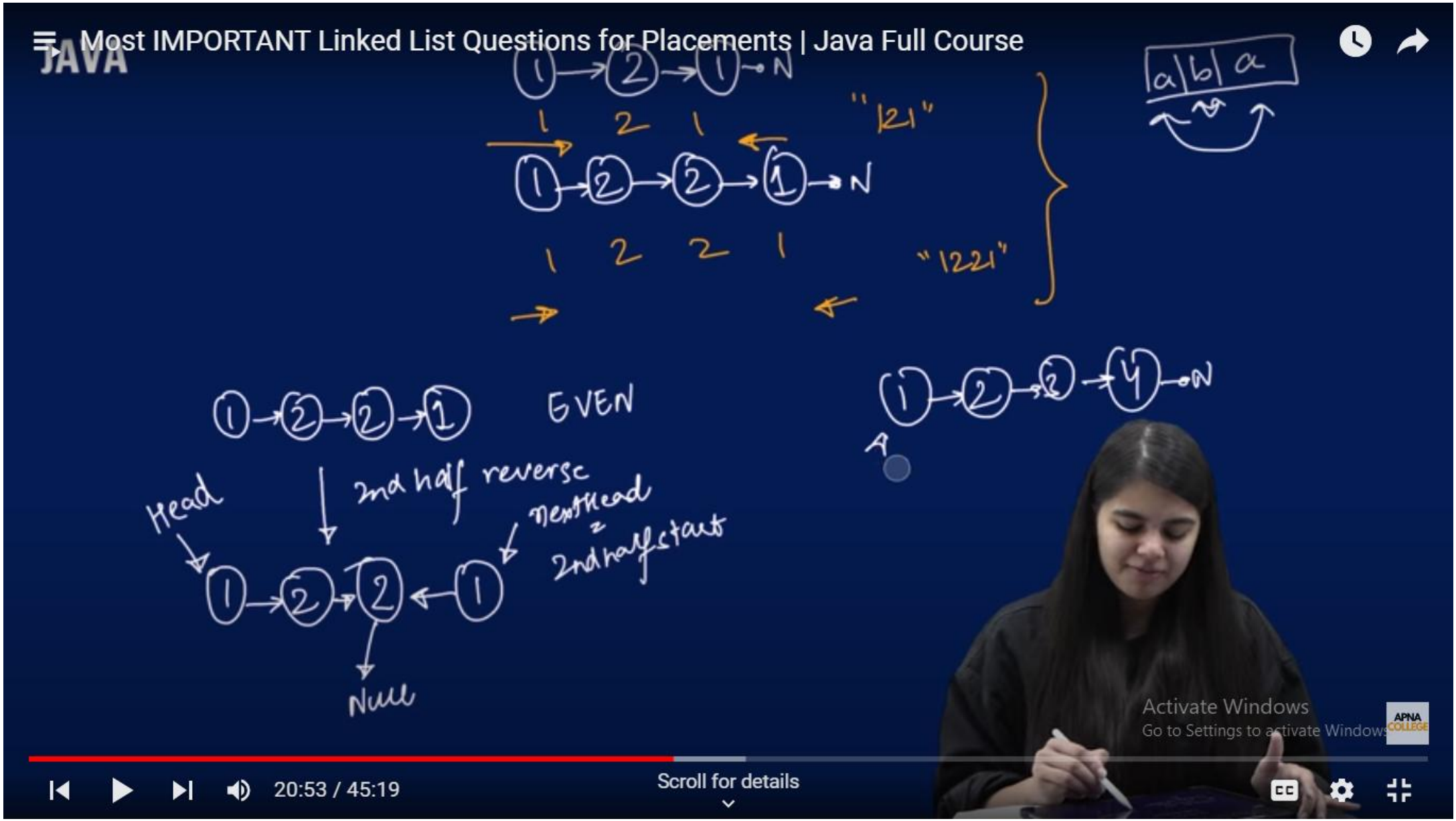
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"121"
"1221"
EVEN
Head
2nd half reverse
nextHead = 2nd half start
Null
A
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20:53 / 45:19
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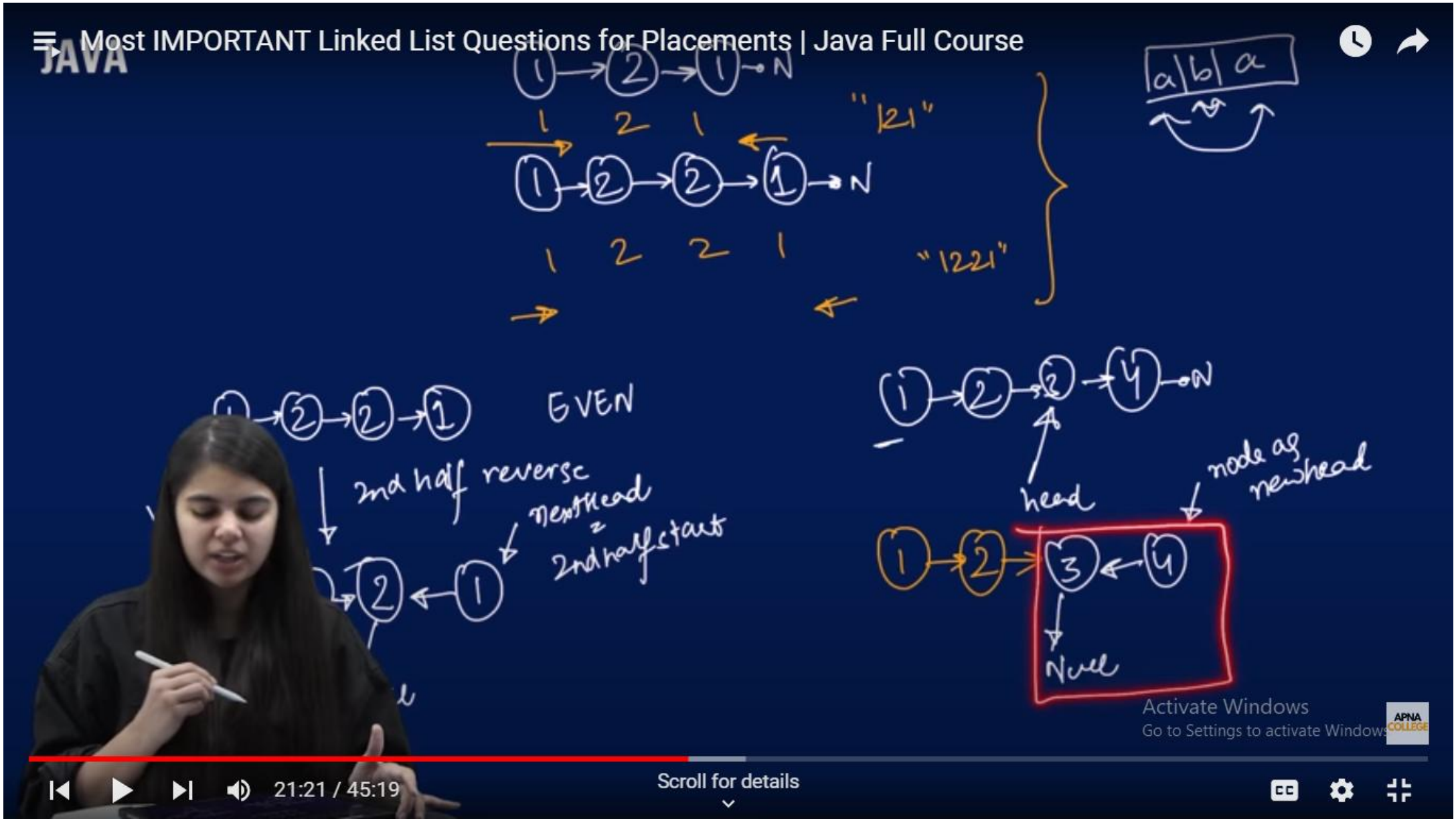
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"121"
"1221"
EVEN
2nd half reverse
newHead = 2nd half start
head
node as newhead
Null
21:21 / 45:19
Scroll for details
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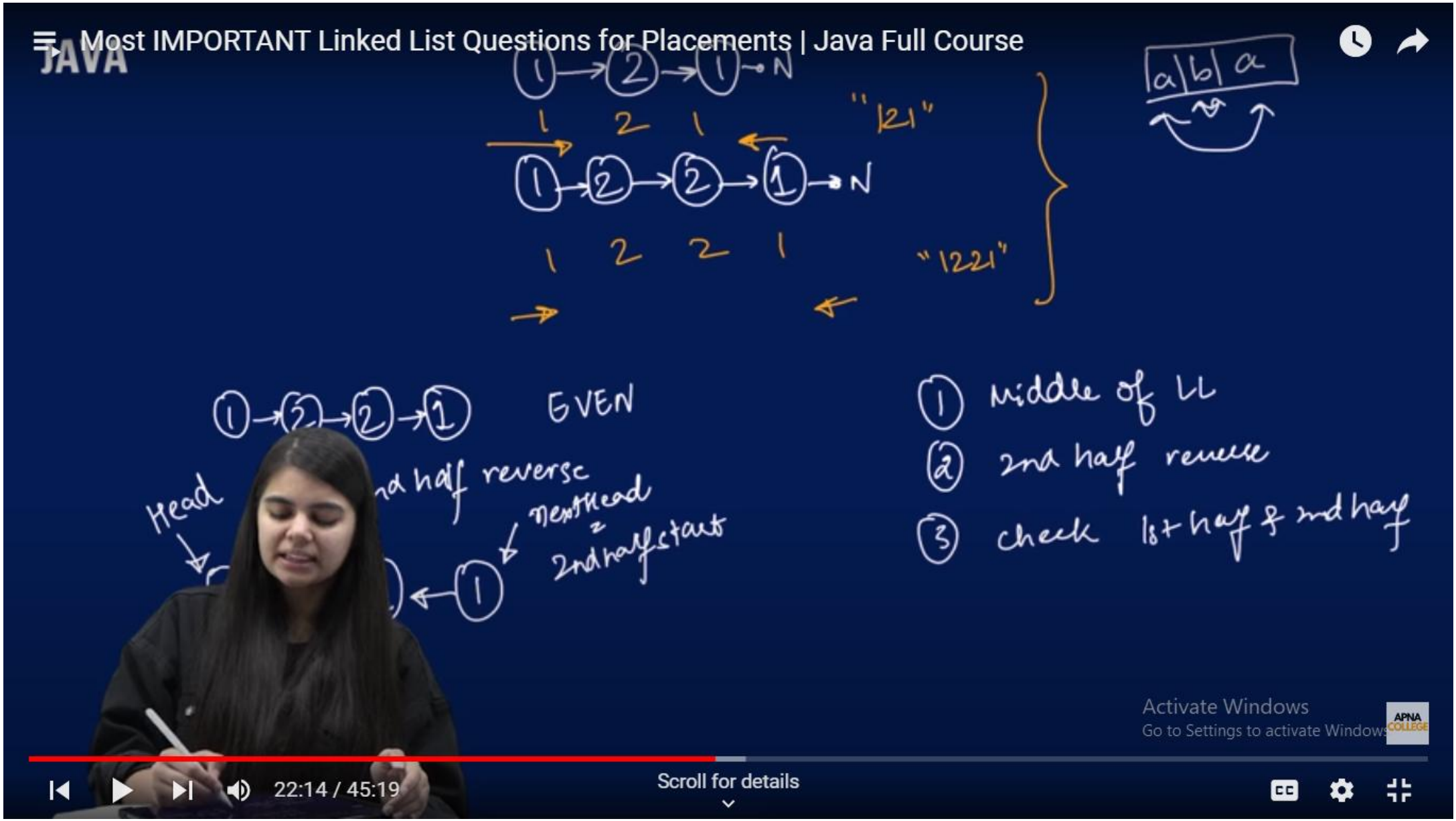
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"121"
"1221"
EVEN
Head
nextHead = 2ndhalfstart
1 Middle of LL
2 2nd half reverse
3 check 1st half & 2nd half
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22:14 / 45:19
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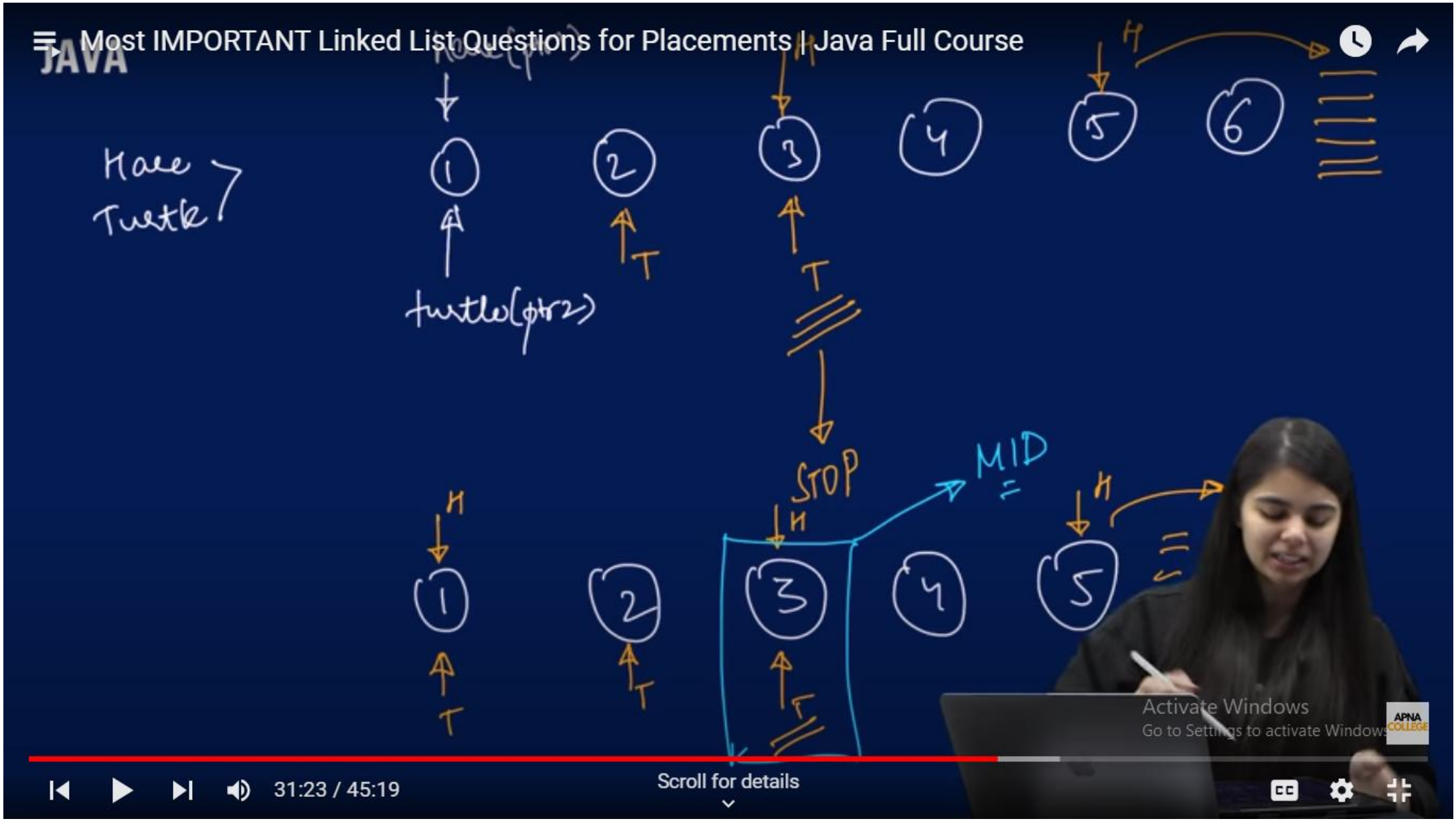
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JAVA
Have Turtle?
turtle(ptr2)
STOP
MID
31:23 / 45:19
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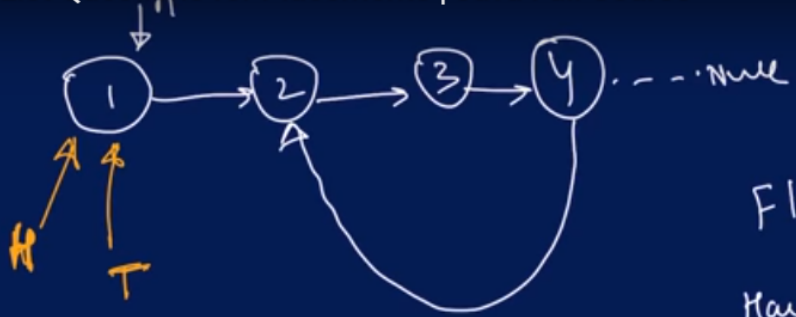
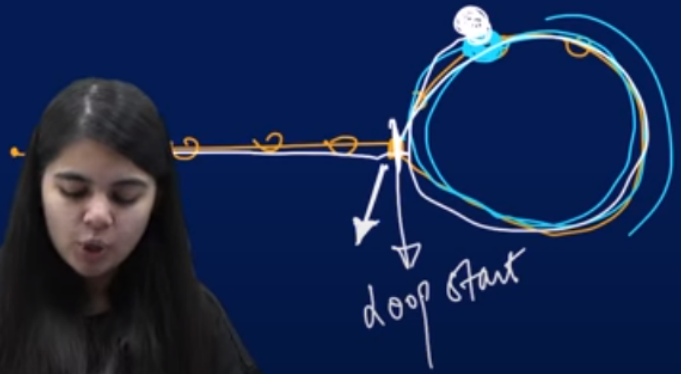


Floyd's

Hare Turtle



hare distance = 2* (turtle)

x