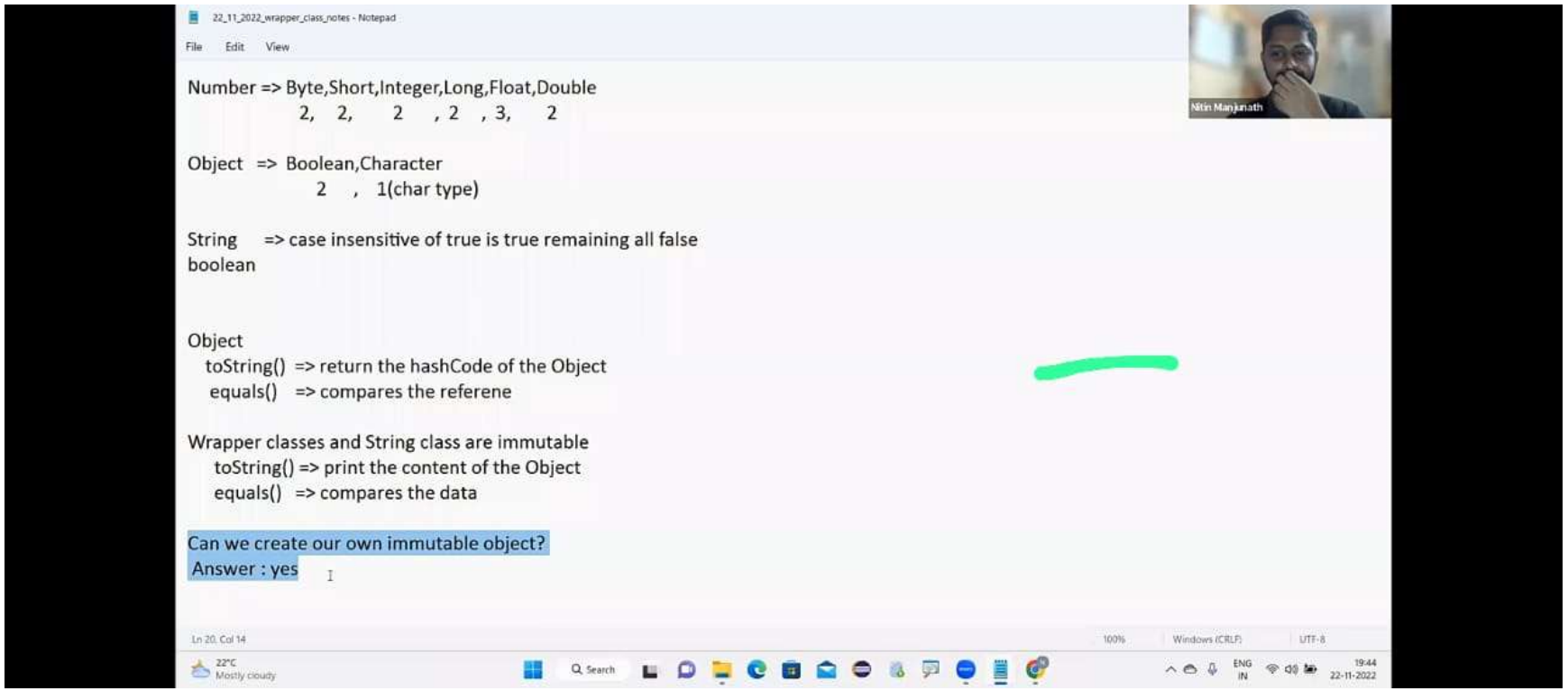
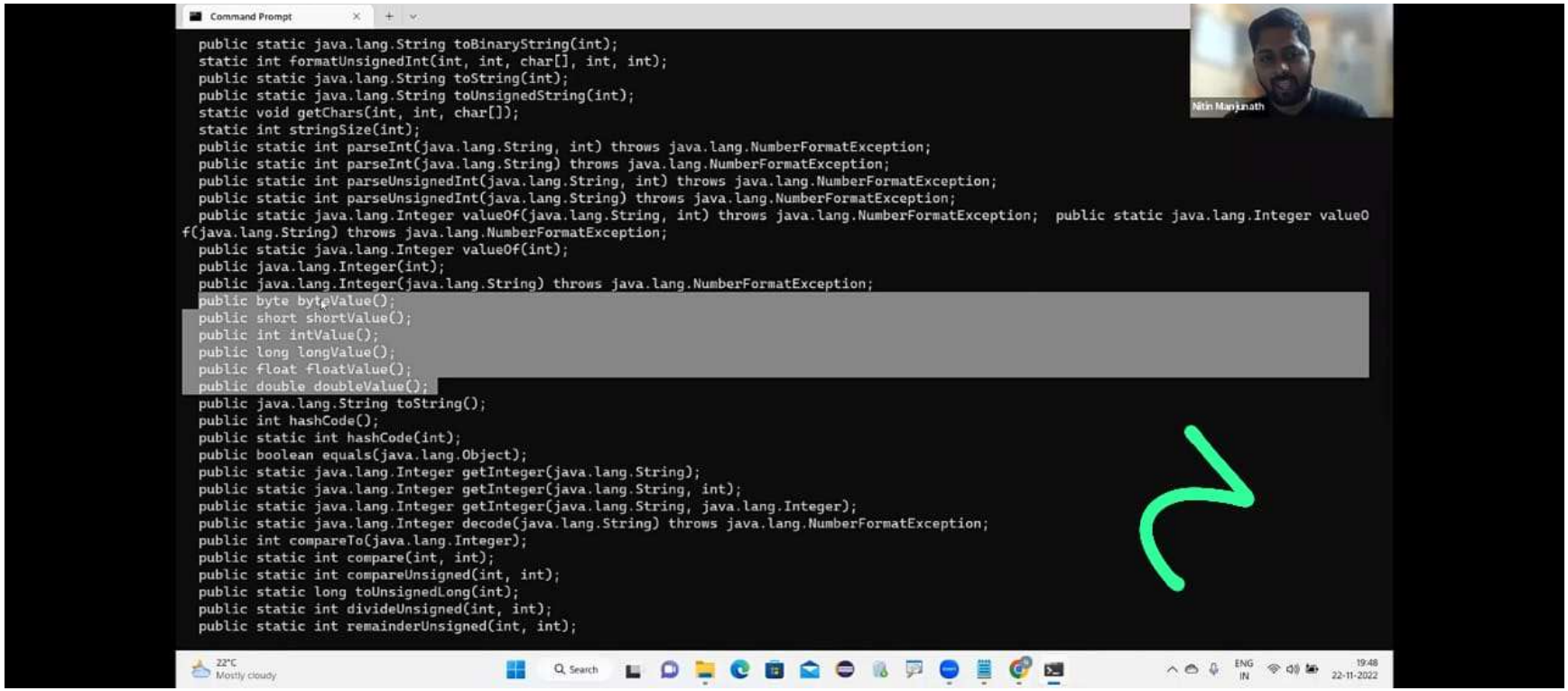


Java Wrapper Classes Part -2


Command Prompt
Nitin Manjunath
public static java.lang.String toBinaryString(int);
static int formatUnsignedInt(int, int, char[], int, int);
public static java.lang.String toString(int);
public static java.lang.String toUnsignedString(int);
static void getChars(int, int, char[]);
static int stringSize(int);
public static int parseInt(java.lang.String, int) throws java.lang.NumberFormatException;
public static int parseInt(java.lang.String) throws java.lang.NumberFormatException;
public static int parseUnsignedInt(java.lang.String, int) throws java.lang.NumberFormatException;
public static int parseUnsignedInt(java.lang.String) throws java.lang.NumberFormatException;
public static java.lang.Integer valueOf(java.lang.String, int) throws java.lang.NumberFormatException; public static java.lang.Integer valueO
f(java.lang.String) throws java.lang.NumberFormatException;
public static java.lang.Integer valueOf(int);
public java.lang.Integer(int);
public java.lang.Integer(java.lang.String) throws java.lang.NumberFormatException;
public byte byteValue();
public short shortValue();
public int intValue();
public long longValue();
public float floatValue();
public double doubleValue();
public java.lang.String toString();
public int hashCode();
public static int hashCode(int);
public boolean equals(java.lang.Object);
public static java.lang.Integer getInteger(java.lang.String);
public static java.lang.Integer getInteger(java.lang.String, int);
public static java.lang.Integer getInteger(java.lang.String, java.lang.Integer);
public static java.lang.Integer decode(java.lang.String) throws java.lang.NumberFormatException;
public int compareTo(java.lang.Integer);
public static int compare(int, int);
public static int compareUnsigned(int, int);
public static long toUnsignedLong(int);
public static int divideUnsigned(int, int);
public static int remainderUnsigned(int, int);
22°C
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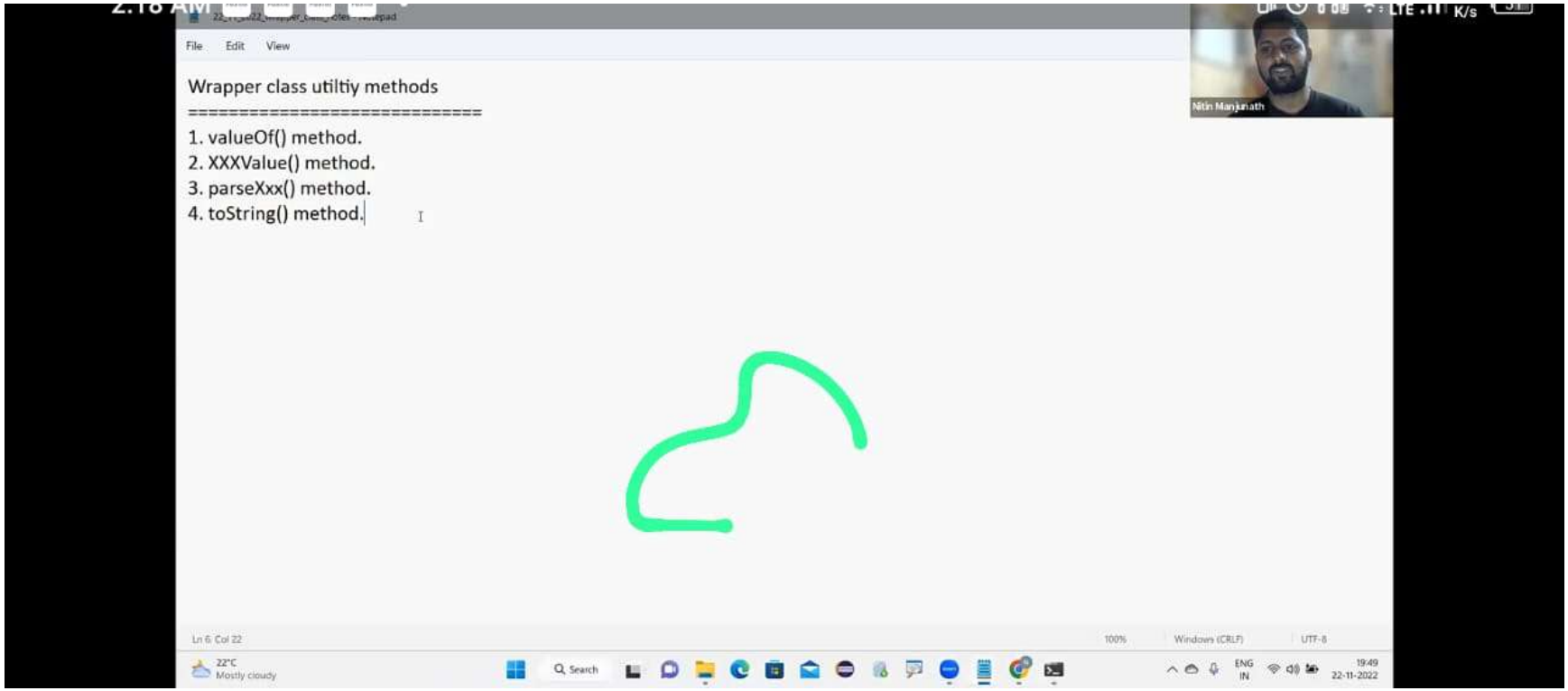
22-11-2022


File Edit View
Wrapper class utiltiy methods
==========
1. valueOf() method.
2. XXXValue() method.
3. parseXxx() method.
4. toString() method.
Nitin Manjunath
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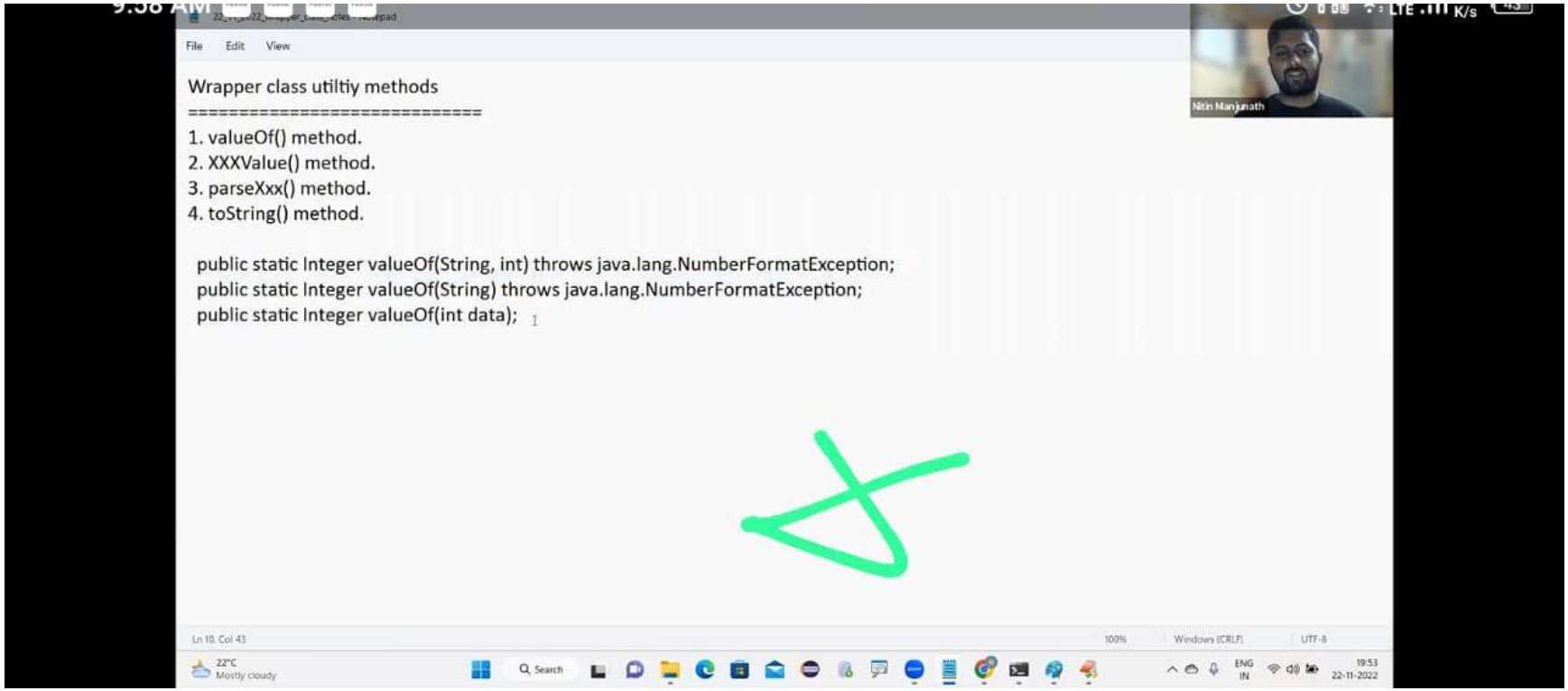
19:49
22-11-2022


File Edit View
Wrapper class utiltiy methods
==========
1. valueOf() method.
2. XXXValue() method.
3. parseXxx() method.
4. toString() method.
public static Integer valueOf(String, int) throws java.lang.NumberFormatException;
public static Integer valueOf(String) throws java.lang.NumberFormatException;
public static Integer valueOf(int data);
Nitin Manjunath
Ln 10, Col 43
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UTF-8
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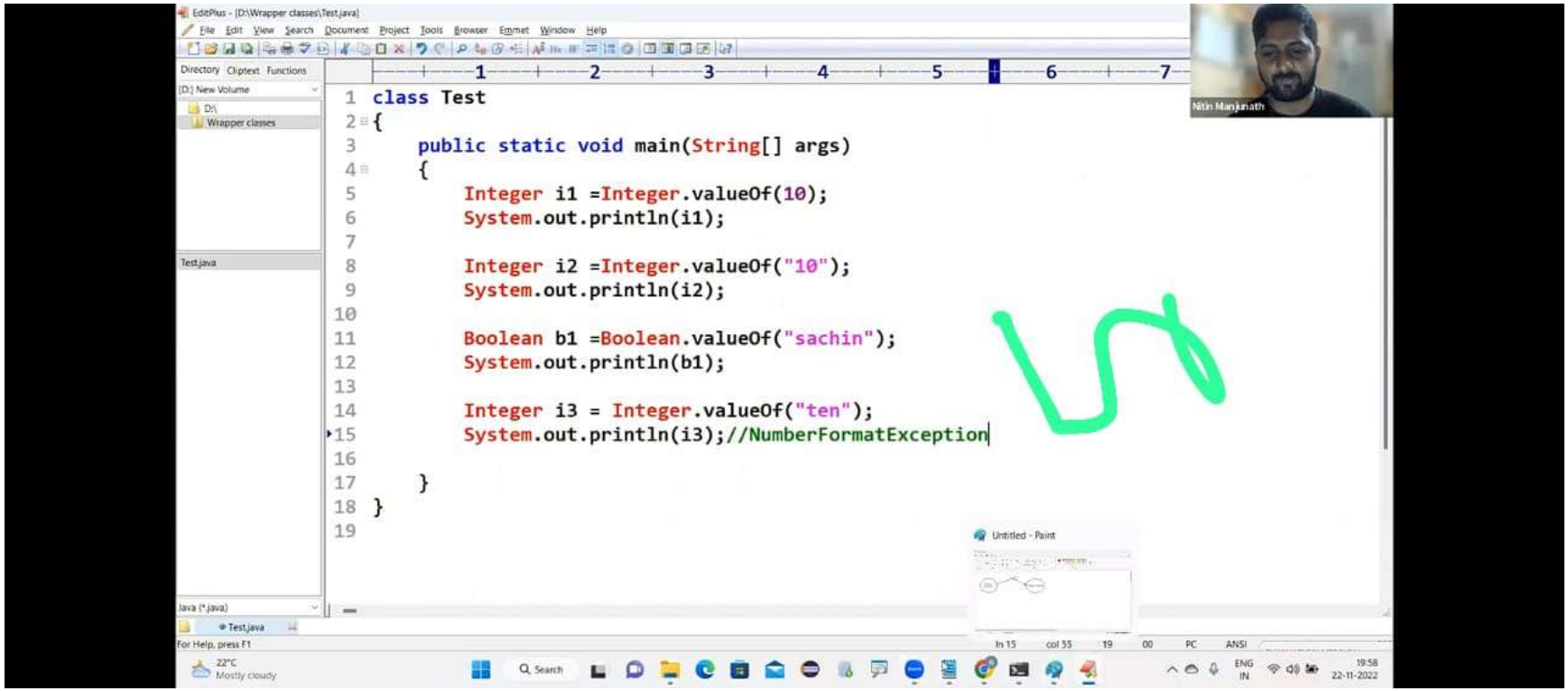
19:53
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
File Edit View Search Document Project Tools Browser Emmet Window Help
Directory Cliptext Functions
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D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
Integer i1 =Integer.valueOf(10);
System.out.println(i1);
Integer i2 =Integer.valueOf("10");
System.out.println(i2);
Boolean b1 =Boolean.valueOf("sachin");
System.out.println(b1);
Integer i3 = Integer.valueOf("ten");
System.out.println(i3);//NumberFormatException
}
}
Untitled - Paint
ln 15 col 55 19 00 PC ANSI
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ENG
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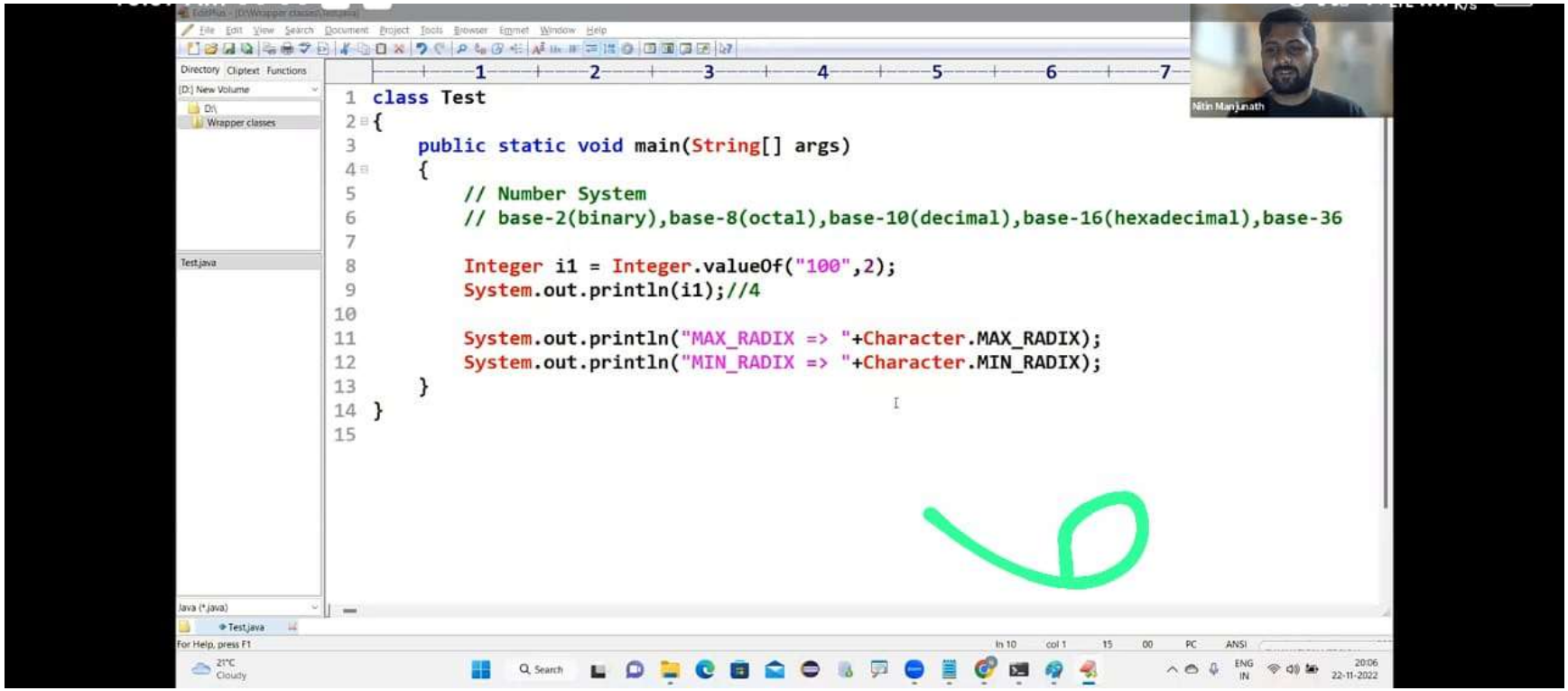
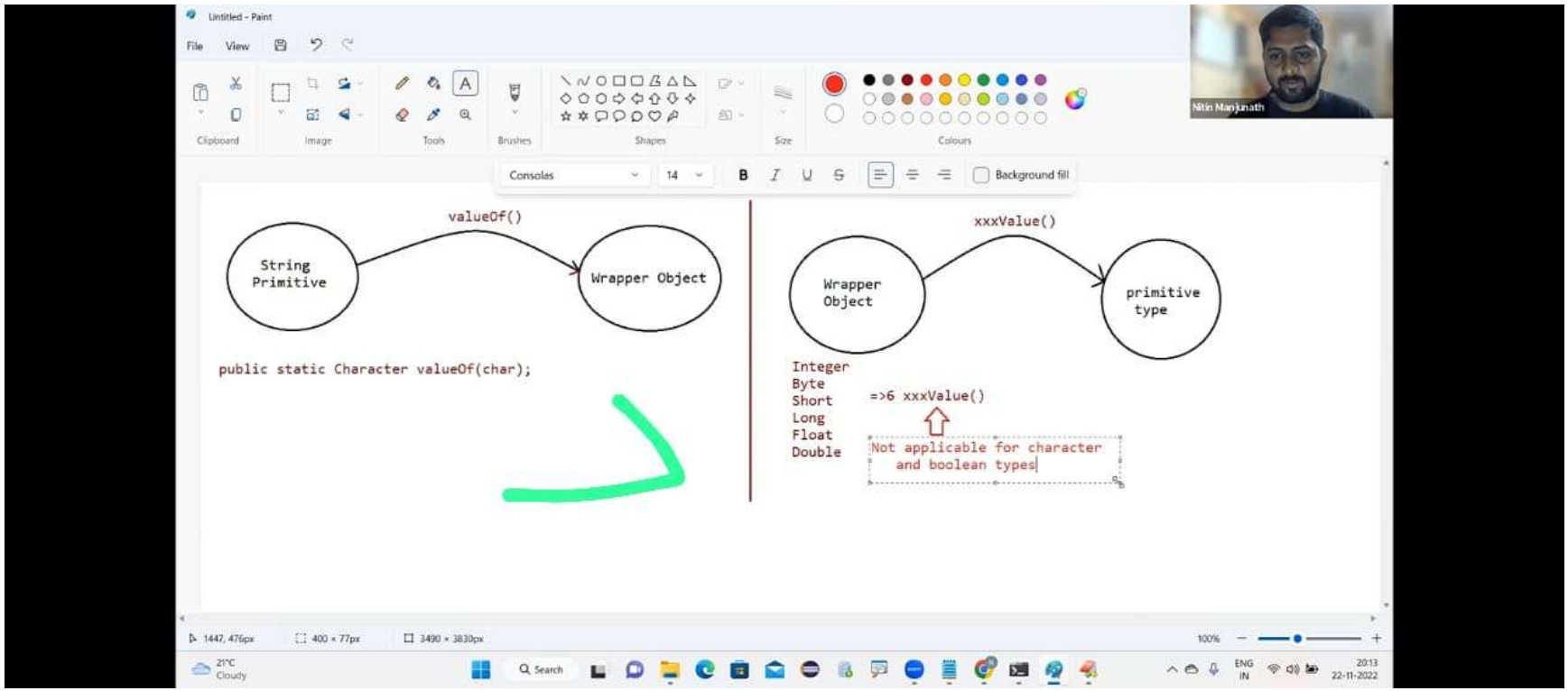
19:58
22-11-2022


Nitin Manjunath
class Test
{
public static void main(String[] args)
{
// Number System
// base-2(binary),base-8(octal),base-10(decimal),base-16(hexadecimal),base-36
Integer i1 = Integer.valueOf("100",2);
System.out.println(i1);//4
System.out.println("MAX_RADIX => "+Character.MAX_RADIX);
System.out.println("MIN_RADIX => "+Character.MIN_RADIX);
}
}


Untitled - Paint
File
View
Nitin Manjunath
Consolas
14
Background fill
valueOf()
String Primitive
Wrapper Object
public static Character valueOf(char);
xxxValue()
Wrapper Object
primitive type
Integer
Byte
Short
Long
Float
Double
=>6 xxxValue()
Not applicable for character and boolean types
1447, 476px
400 × 77px
3490 × 3830px
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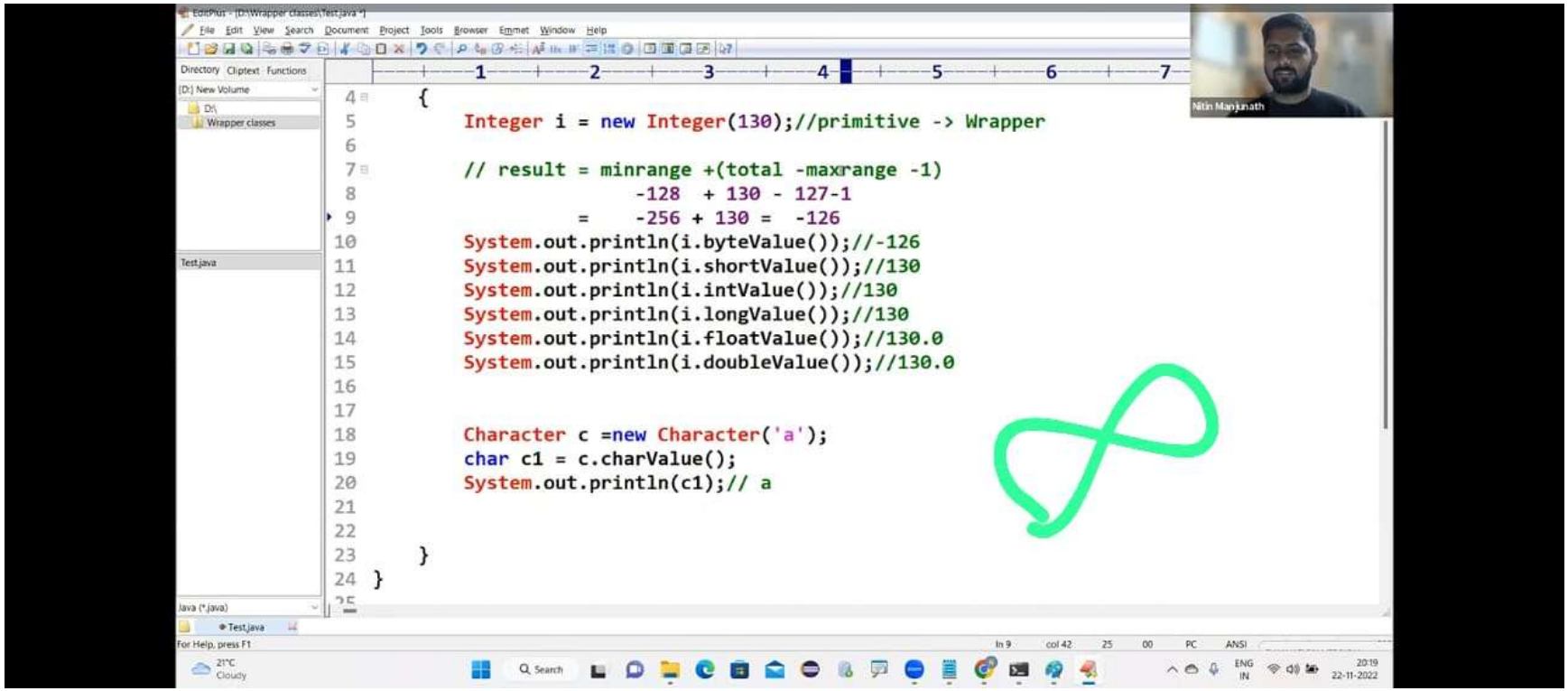
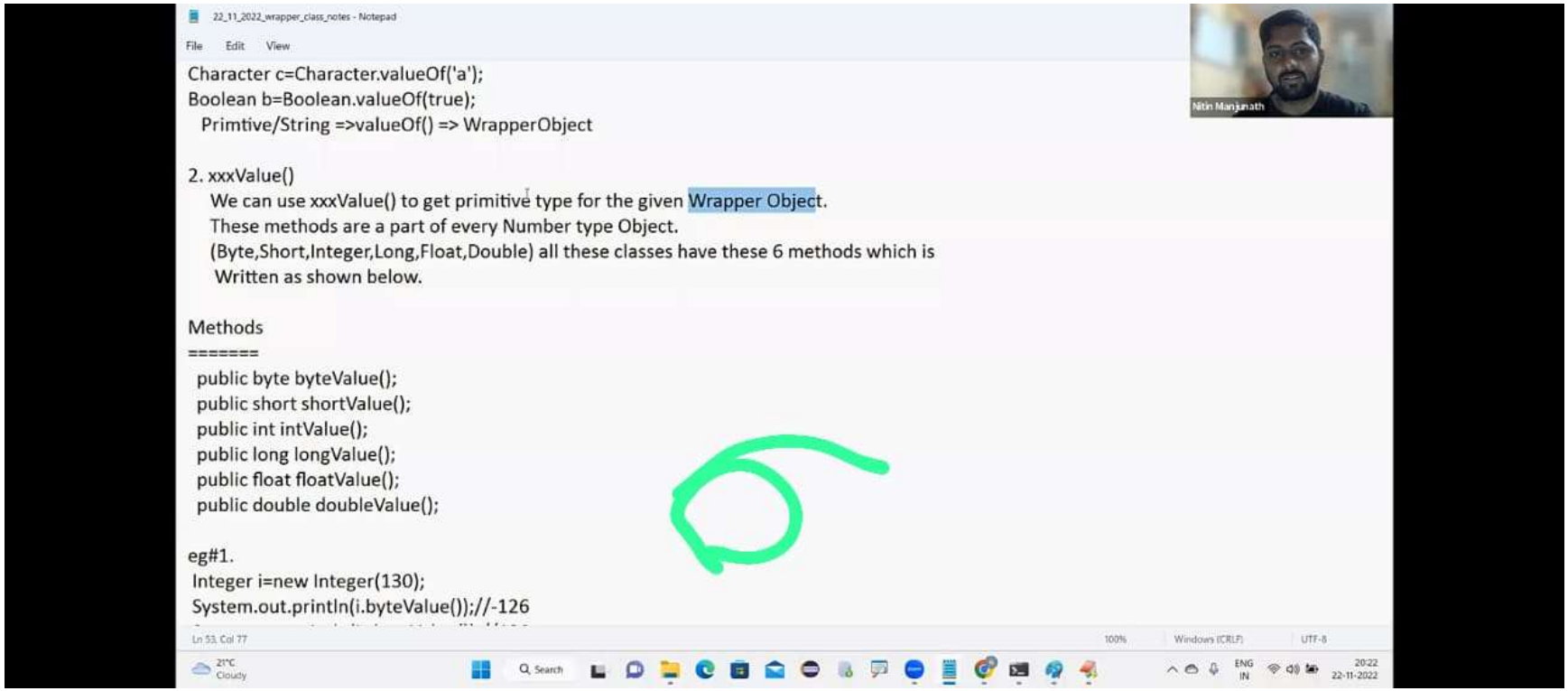
22-11-2022


Nitin Manjunath
{
Integer i = new Integer(130);//primitive -> Wrapper
// result = minrange +(total -maxrange -1)
-128 + 130 - 127-1
= -256 + 130 = -126
System.out.println(i.byteValue());//-126
System.out.println(i.shortValue());//130
System.out.println(i.intValue());//130
System.out.println(i.longValue());//130
System.out.println(i.floatValue());//130.0
System.out.println(i.doubleValue());//130.0
Character c =new Character('a');
char c1 = c.charValue();
System.out.println(c1);// a
}
}


22_11_2022_wrapper_class_notes - Notepad
File Edit View
Character c=Character.valueOf('a');
Boolean b=Boolean.valueOf(true);
Primtive/String =>valueOf() => WrapperObject
2. xxxValue()
We can use xxxValue() to get primitive type for the given Wrapper Object.
These methods are a part of every Number type Object.
(Byte,Short,Integer,Long,Float,Double) all these classes have these 6 methods which is
Written as shown below.
Methods
=======
public byte byteValue();
public short shortValue();
public int intValue();
public long longValue();
public float floatValue();
public double doubleValue();
eg#1.
Integer i=new Integer(130);
System.out.println(i.byteValue());//-126
Nitin Manjunath
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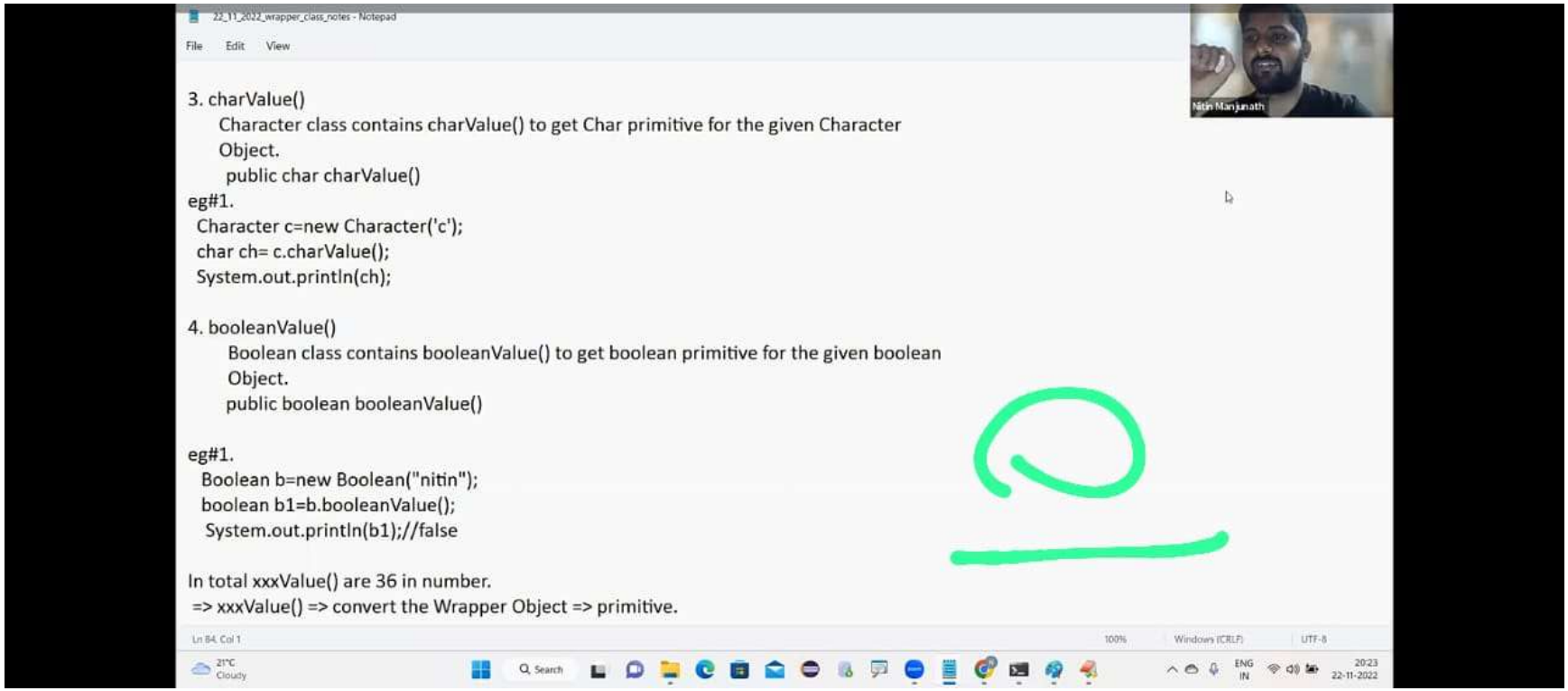
20:22
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
File Edit View
Nitin Manjunath
3. charValue()
Character class contains charValue() to get Char primitive for the given Character Object.
public char charValue()
eg#1.
Character c=new Character('c');
char ch= c.charValue();
System.out.println(ch);
4. booleanValue()
Boolean class contains booleanValue() to get boolean primitive for the given boolean Object.
public boolean booleanValue()
eg#1.
Boolean b=new Boolean("nitin");
boolean b1=b.booleanValue();
System.out.println(b1);//false
In total xxxValue() are 36 in number.
=> xxxValue() => convert the Wrapper Object => primitive.
Ln 84, Col 1
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Windows (CRLF)
UTF-8
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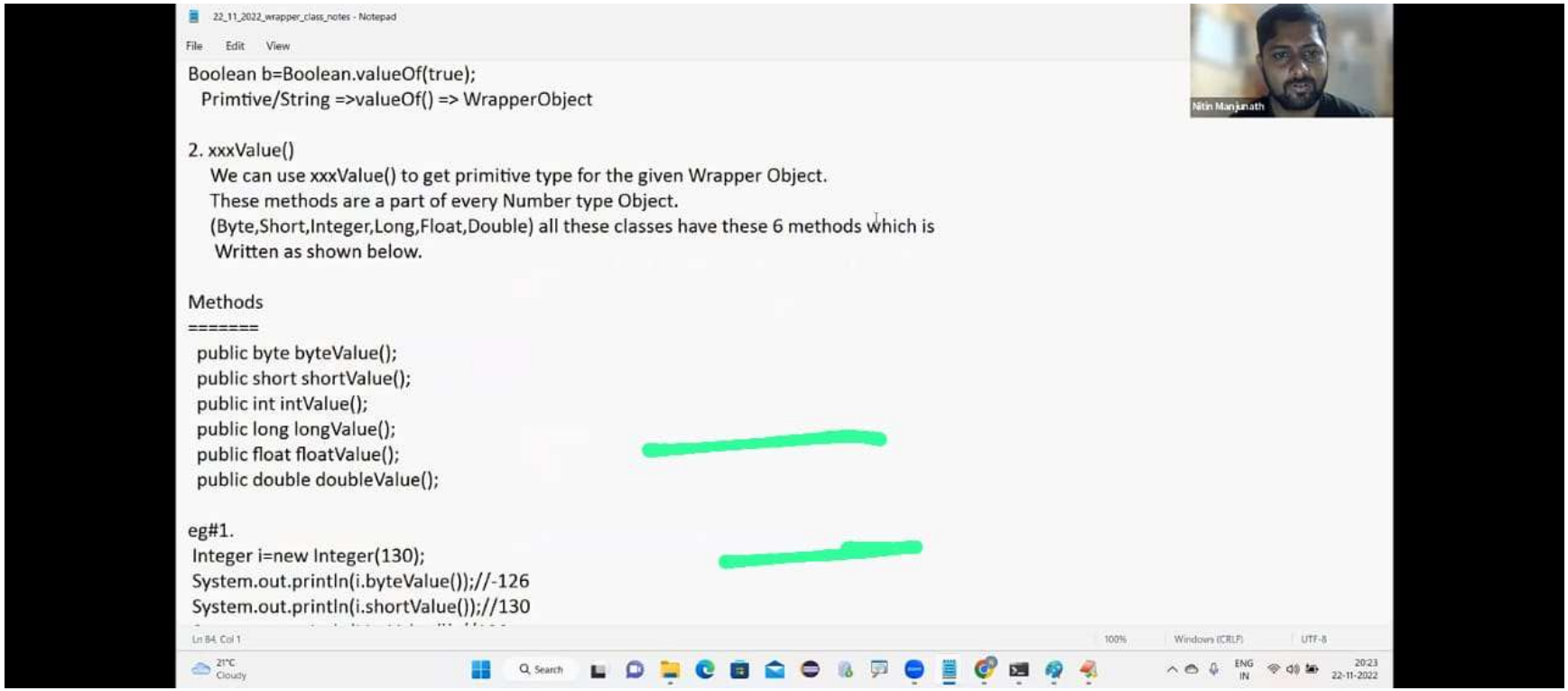
20:23
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
File Edit View
Boolean b=Boolean.valueOf(true);
Primtive/String =>valueOf() => WrapperObject
2. xxxValue()
We can use xxxValue() to get primitive type for the given Wrapper Object.
These methods are a part of every Number type Object.
(Byte,Short,Integer,Long,Float,Double) all these classes have these 6 methods which is
Written as shown below.
Methods
=======
public byte byteValue();
public short shortValue();
public int intValue();
public long longValue();
public float floatValue();
public double doubleValue();
eg#1.
Integer i=new Integer(130);
System.out.println(i.byteValue());//-126
System.out.println(i.shortValue());//130
Nitin Manjunath
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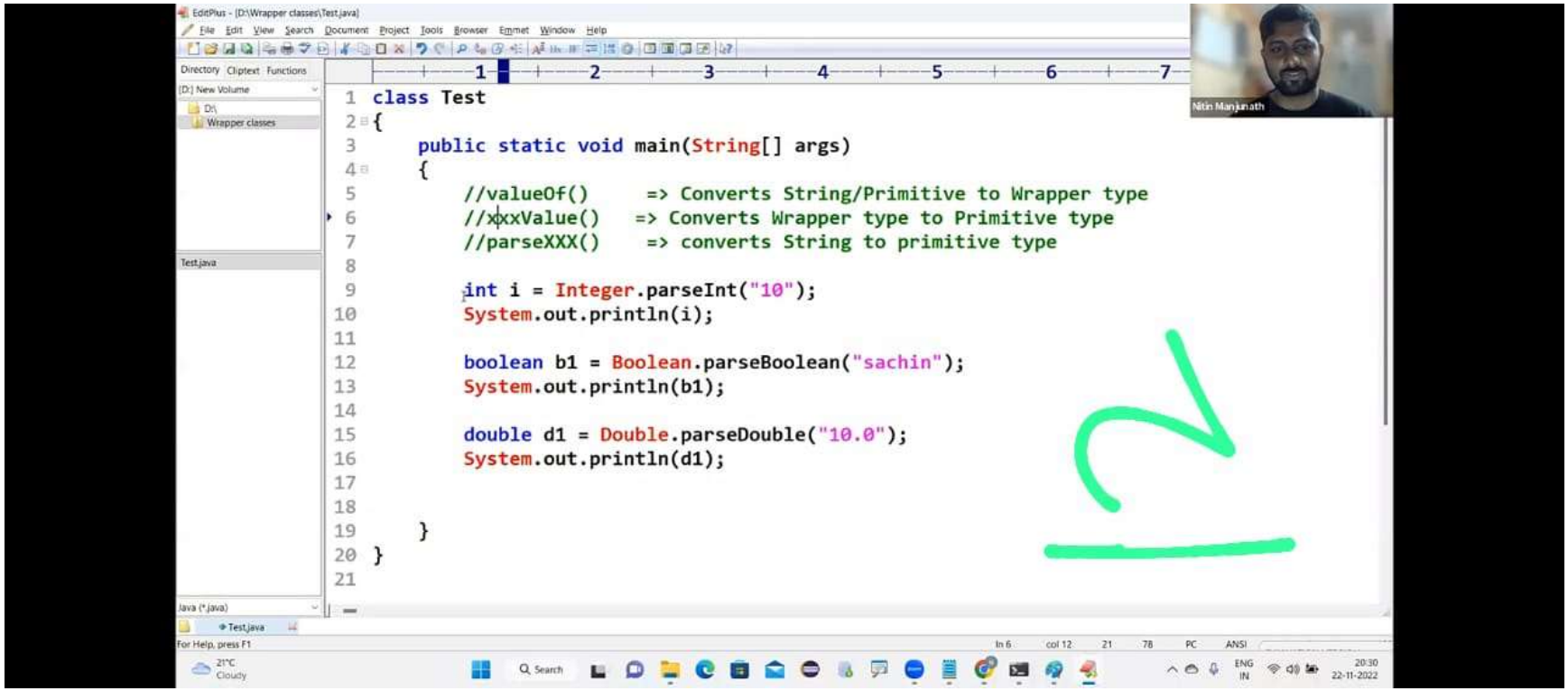
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
File Edit View Search Document Project Tools Browser Emmet Window Help
Directory Cliptext Functions
[D:] New Volume
D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
//valueOf() => Converts String/Primitive to Wrapper type
//xxxValue() => Converts Wrapper type to Primitive type
//parseXXX() => converts String to primitive type
int i = Integer.parseInt("10");
System.out.println(i);
boolean b1 = Boolean.parseBoolean("sachin");
System.out.println(b1);
double d1 = Double.parseDouble("10.0");
System.out.println(d1);
}
}
Search
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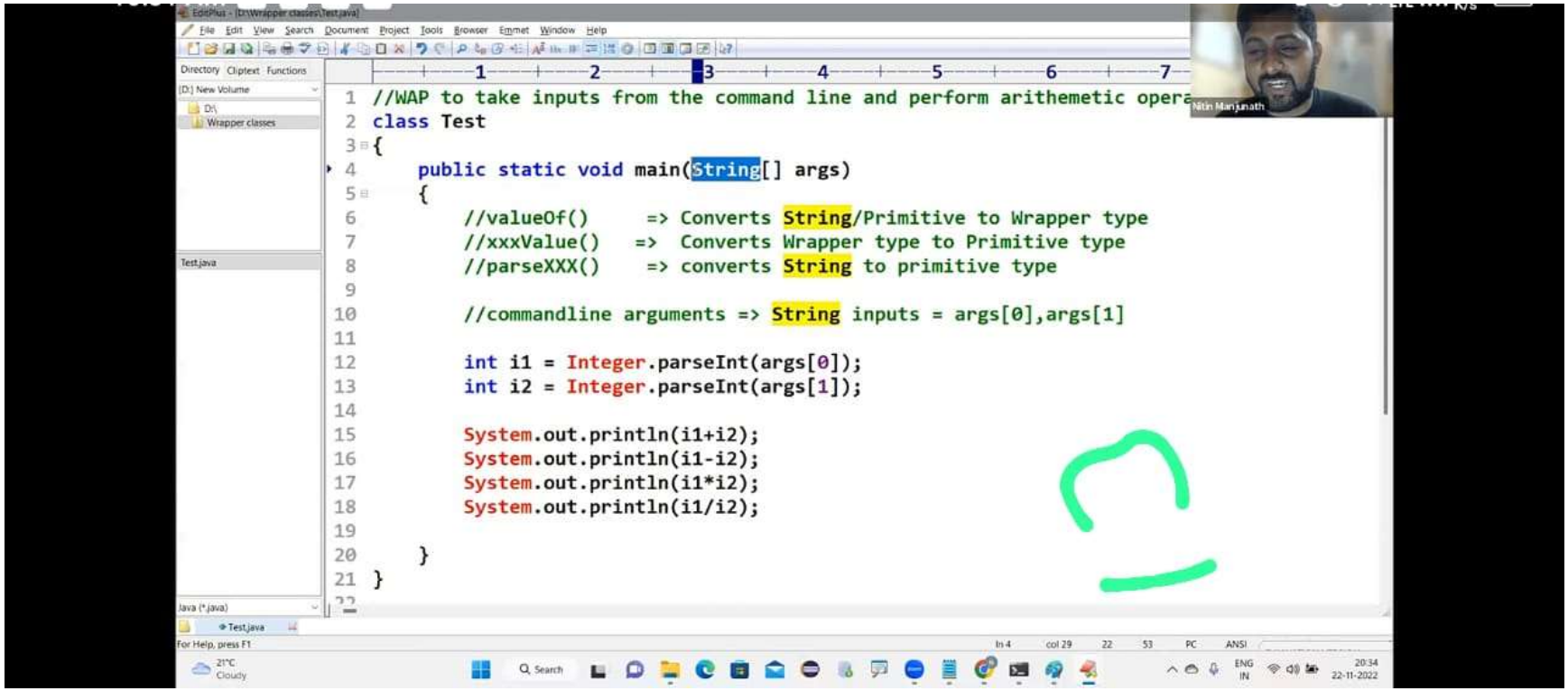
22-11-2022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Directory Cliptext Functions
D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
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Ln 4 col 29 22 53 PC ANSI
Nitin Manjunath
1 //WAP to take inputs from the command line and perform arithemetic opera
2 class Test
3 {
4 public static void main(String[] args)
5 {
6 //valueOf() => Converts String/Primitive to Wrapper type
7 //xxxValue() => Converts Wrapper type to Primitive type
8 //parseXXX() => converts String to primitive type
9
10 //commandline arguments => String inputs = args[0],args[1]
11
12 int i1 = Integer.parseInt(args[0]);
13 int i2 = Integer.parseInt(args[1]);
14
15 System.out.println(i1+i2);
16 System.out.println(i1-i2);
17 System.out.println(i1*i2);
18 System.out.println(i1/i2);
19
20 }
21 }
22
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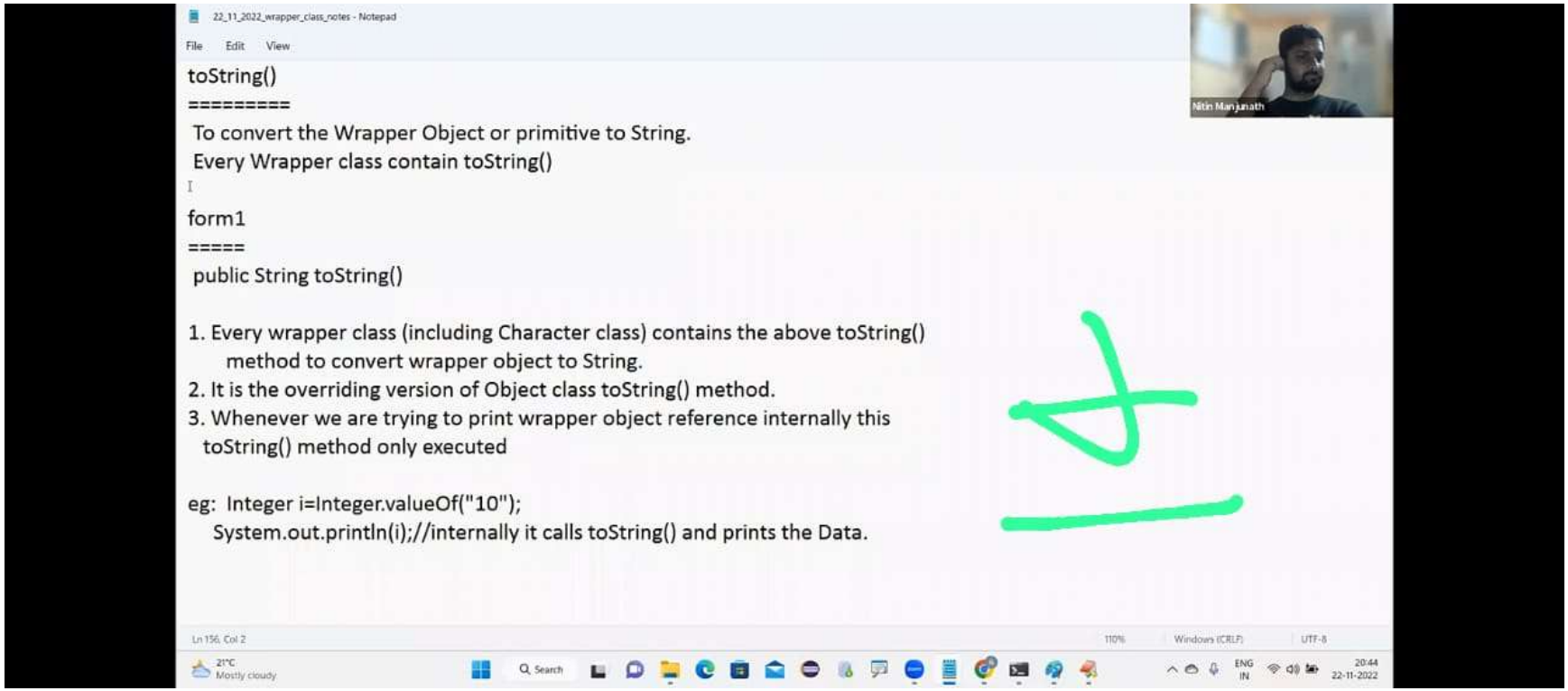
22_11_2022_wrapper_class_notes - Notepad
File Edit View
toString()
==========
To convert the Wrapper Object or primitive to String.
Every Wrapper class contain toString()
form1
=====
public String toString()
1. Every wrapper class (including Character class) contains the above toString()
method to convert wrapper object to String.
2. It is the overriding version of Object class toString() method.
3. Whenever we are trying to print wrapper object reference internally this
toString() method only executed
eg: Integer i=Integer.valueOf("10");
System.out.println(i);//internally it calls toString() and prints the Data.
Nitin Manjunath
Ln 156, Col 2
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Windows (CRLF)
UTF-8
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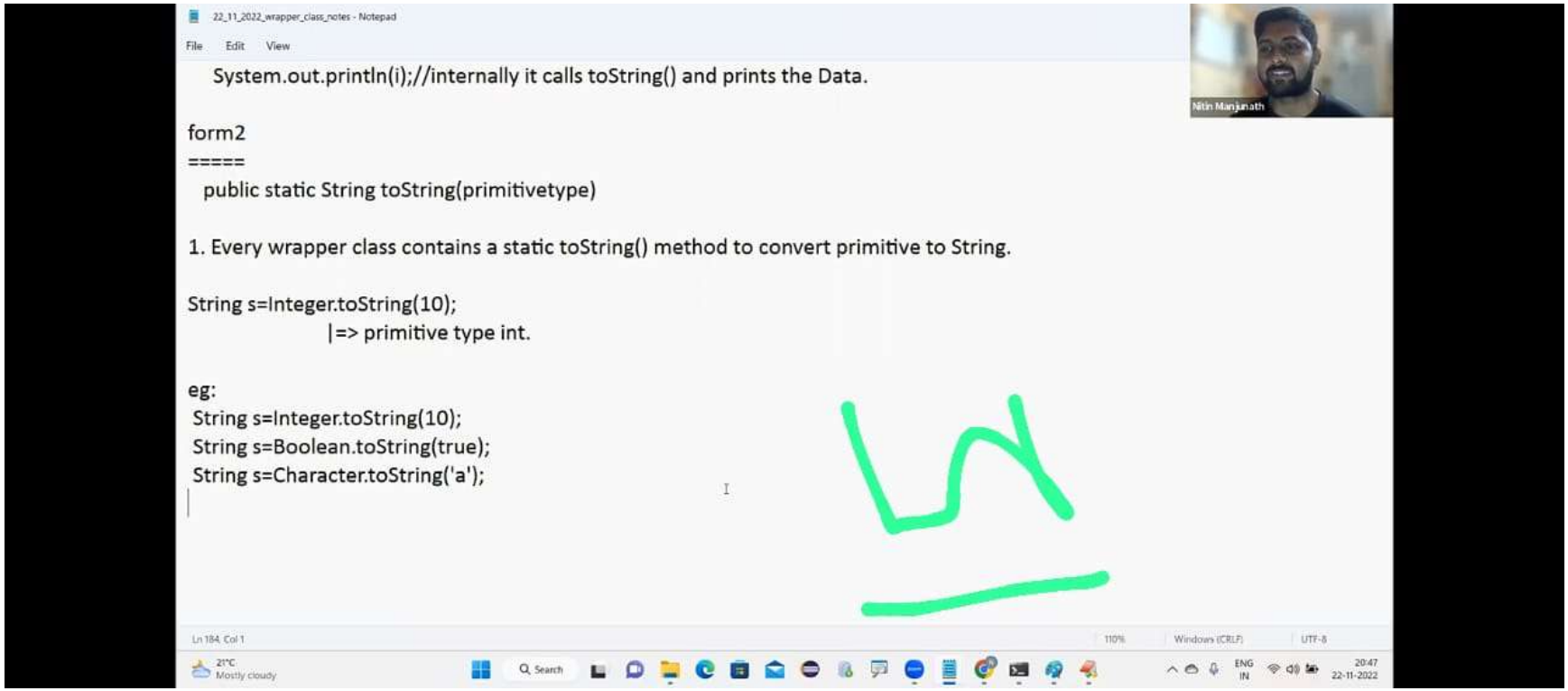
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
File Edit View
System.out.println(i);//internally it calls toString() and prints the Data.
form2
=====
public static String toString(primitivetype)
1. Every wrapper class contains a static toString() method to convert primitive to String.
String s=Integer.toString(10);
|=> primitive type int.
eg:
String s=Integer.toString(10);
String s=Boolean.toString(true);
String s=Character.toString('a');
Nitin Manjunath
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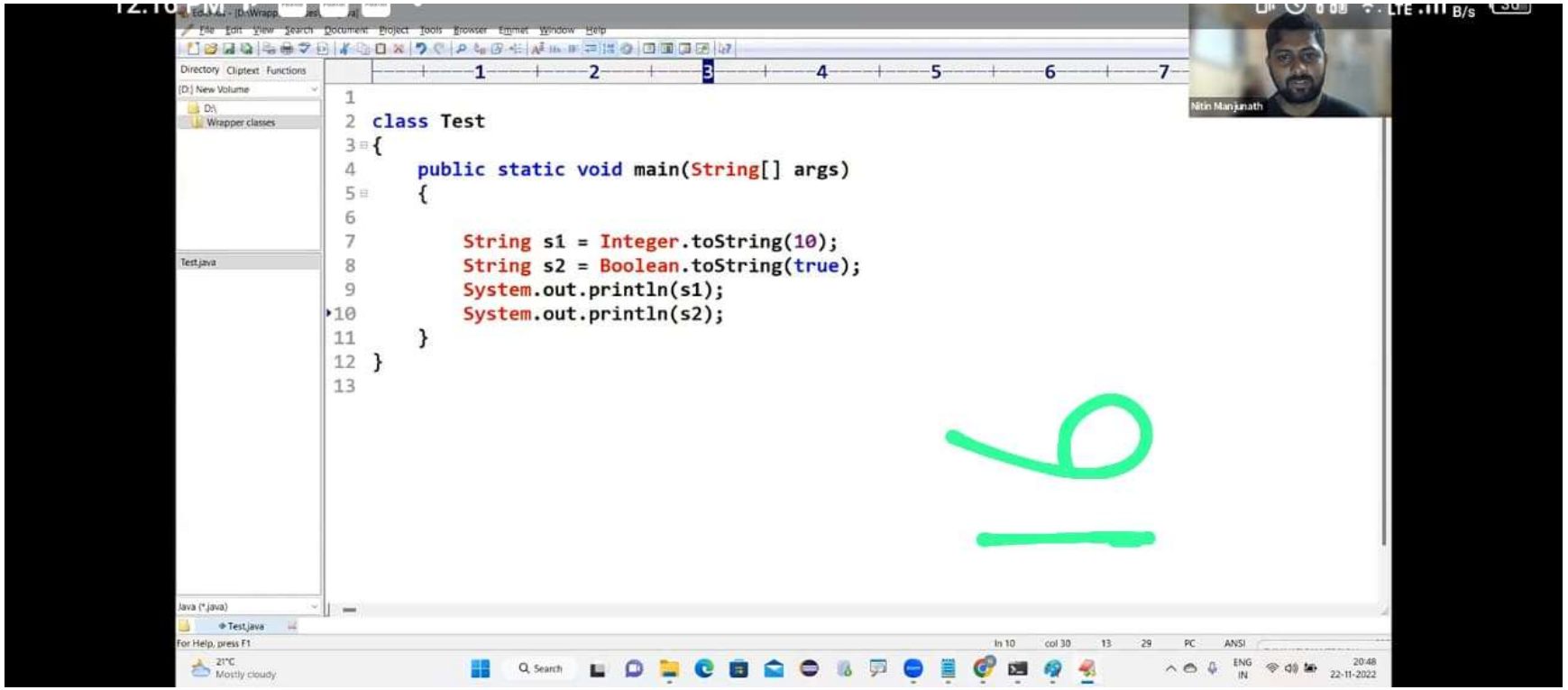
22-11-2022


Directory Cliptext Functions
[D:] New Volume
D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
String s1 = Integer.toString(10);
String s2 = Boolean.toString(true);
System.out.println(s1);
System.out.println(s2);
}
}
10
For Help, press F1
21°C
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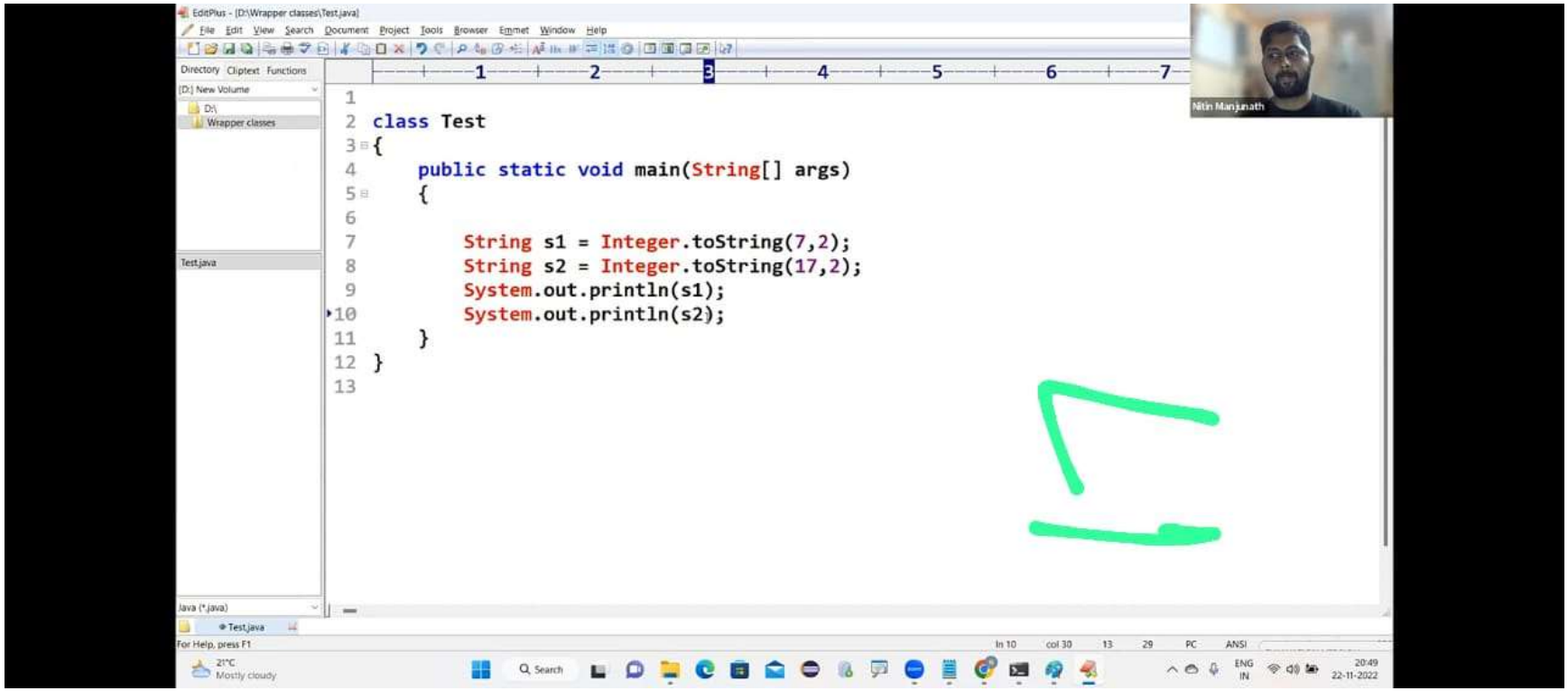
EditPlus - [D:\Wrapper classes\Test.java]
File Edit View Search Document Project Tools Browser Emmet Window Help
Directory Cliptext Functions
[D:] New Volume
D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Ln 10 col 30 13 29 PC ANSI
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
String s1 = Integer.toString(7,2);
String s2 = Integer.toString(17,2);
System.out.println(s1);
System.out.println(s2);
}
}
21°C
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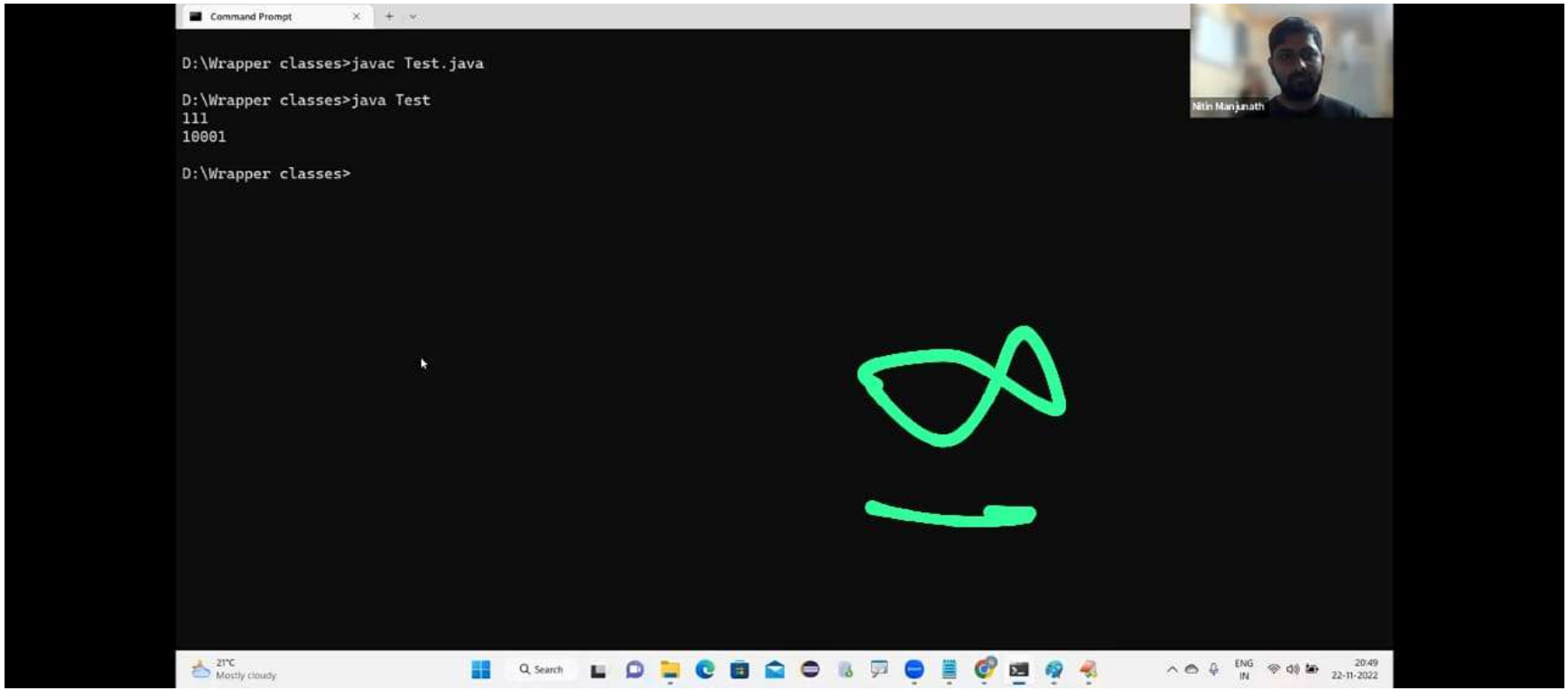
22-11-2022


Command Prompt
D:\Wrapper classes>javac Test.java
D:\Wrapper classes>java Test
111
10001
D:\Wrapper classes>
Nitin Manjunath
21°C
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Search
ENG
IN
20:49
22-11-2022

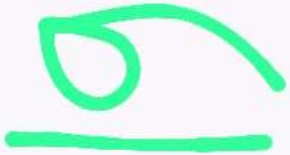
22_11_2022_wrapper_class_notes - Notepad

File Edit View

public static String toString(primitive p,int radix)
|=> 2 to 36

eg: String s=Integer.toString(15,2)
System.out.println(s); // 1111

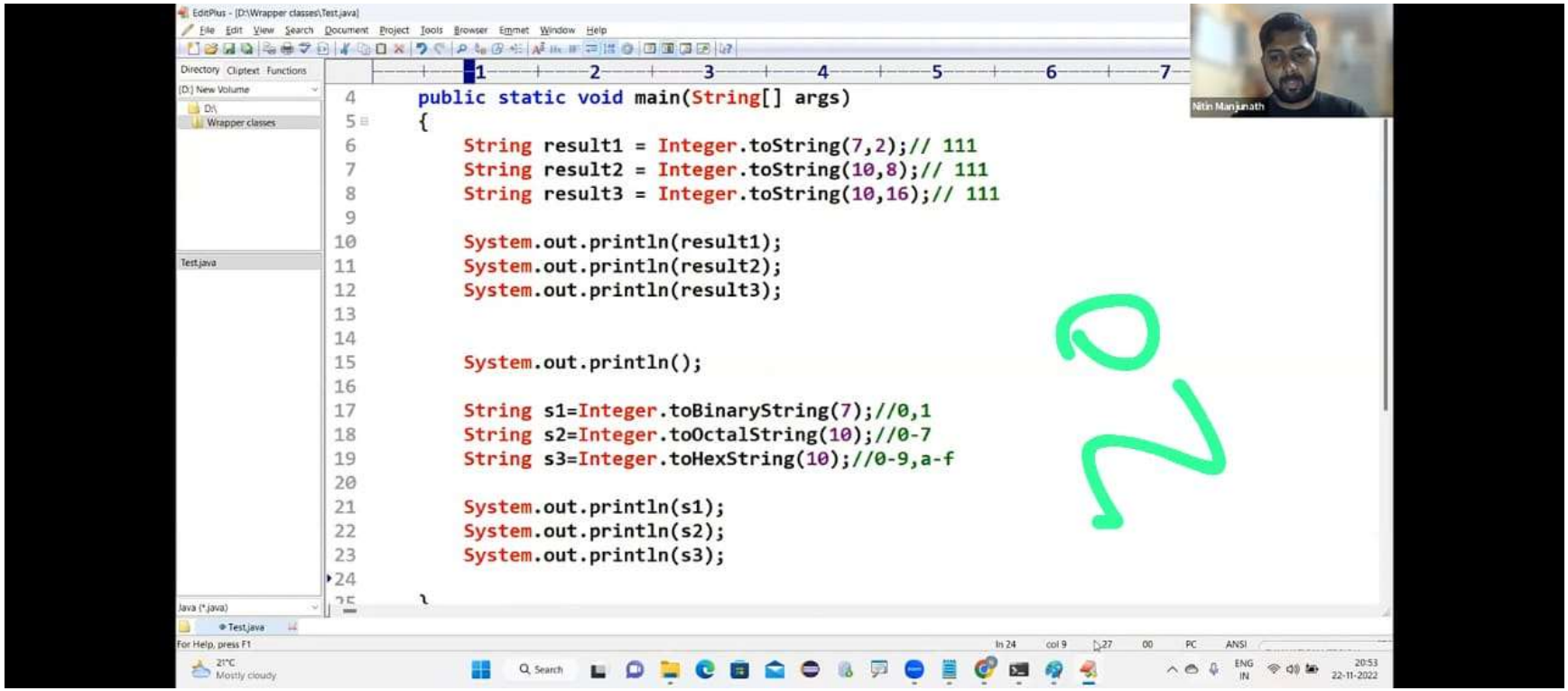
form4
=====
Integer and Long classes contains the following toXxxString() methods.
public static String toBinaryString(primitive p);
public static String toOctalString(primitive p);
public static String toHexString(primitive p);



Example:
class WrapperClassDemo {
public static void main(String[] args) {
String s1=Integer.toBinaryString(7);

Ln 202, Col 34 110% Windows (CRLF) UTF-8

21°C Mostly cloudy Search ENG IN 20:50 22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
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Directory Cliptext Functions
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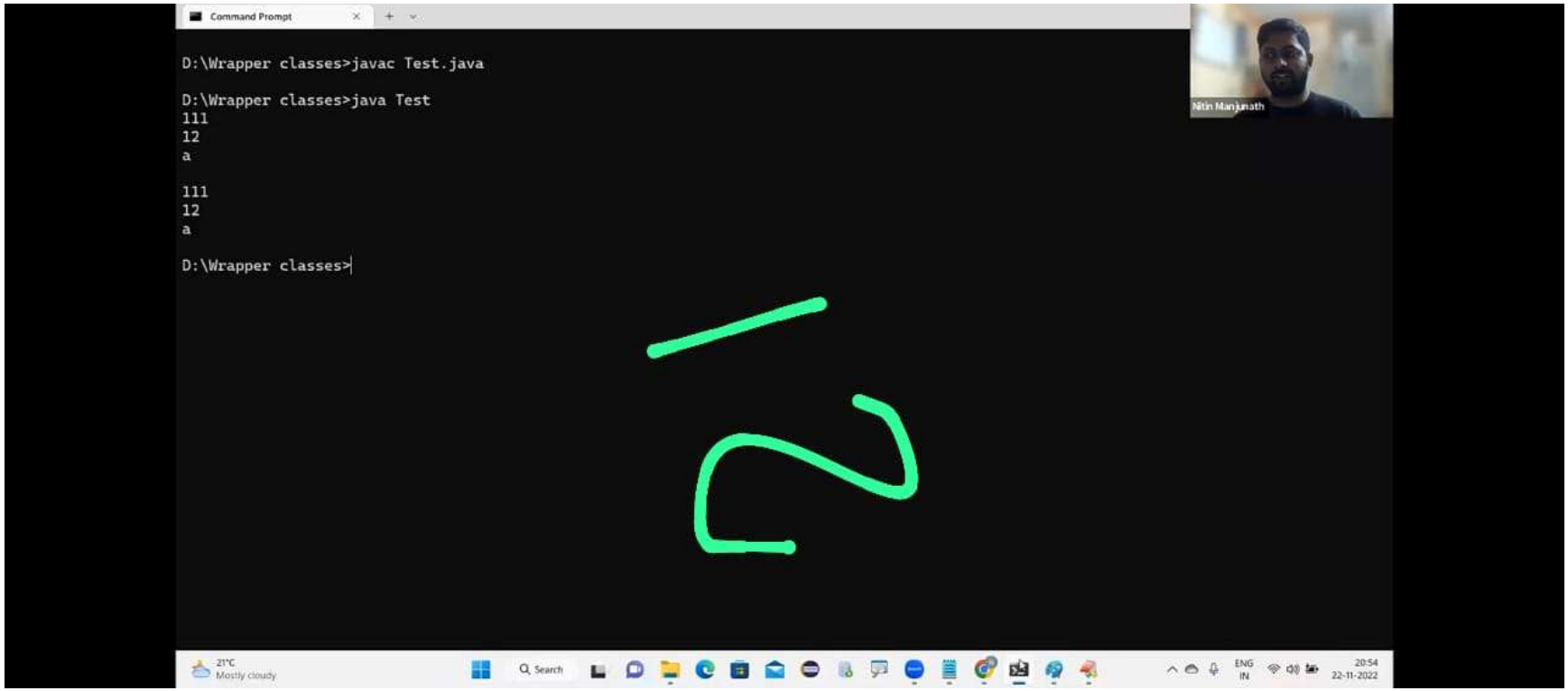
Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Ln 24 col 9 27 00 PC ANSI
21°C Mostly cloudy
Search
ENG IN
20:53 22-11-2022
Nitin Manjunath
4 public static void main(String[] args)
5 {
6 String result1 = Integer.toString(7,2);// 111
7 String result2 = Integer.toString(10,8);// 111
8 String result3 = Integer.toString(10,16);// 111
9
10 System.out.println(result1);
11 System.out.println(result2);
12 System.out.println(result3);
13
14
15 System.out.println();
16
17 String s1=Integer.toBinaryString(7);//0,1
18 String s2=Integer.toOctalString(10);//0-7
19 String s3=Integer.toHexString(10);//0-9,a-f
20
21 System.out.println(s1);
22 System.out.println(s2);
23 System.out.println(s3);
24
25 }


Command Prompt
D:\Wrapper classes>javac Test.java
D:\Wrapper classes>java Test
111
12
a
111
12
a
D:\Wrapper classes>
Nitin Manjunath
21°C
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Search
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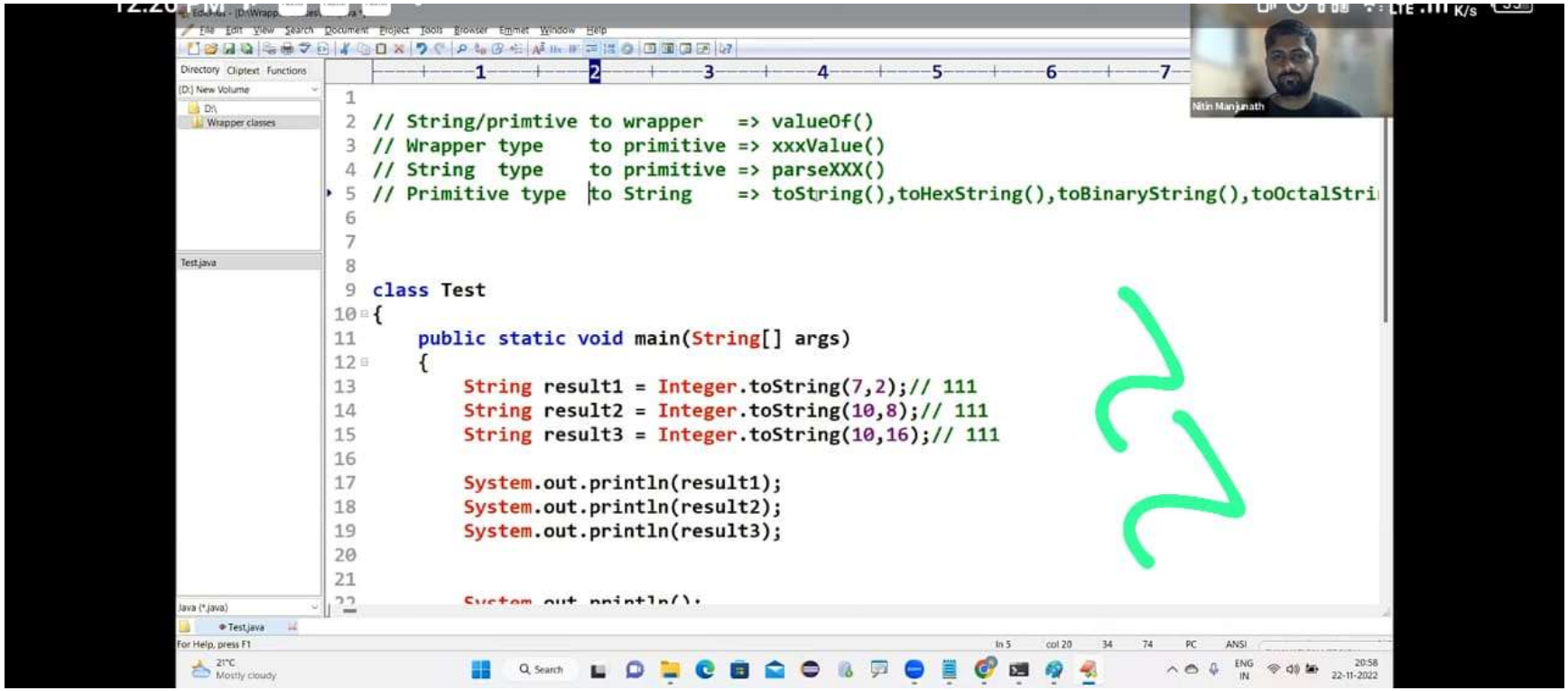
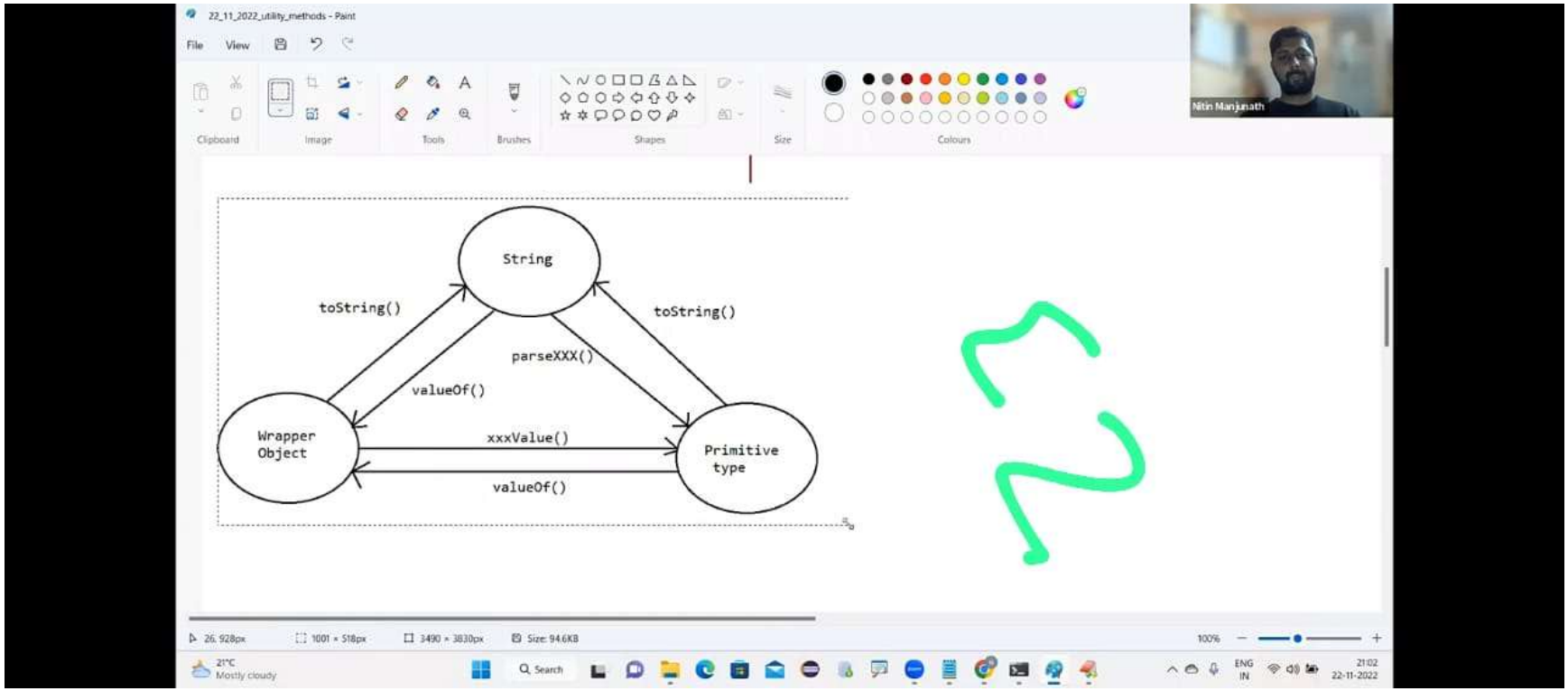
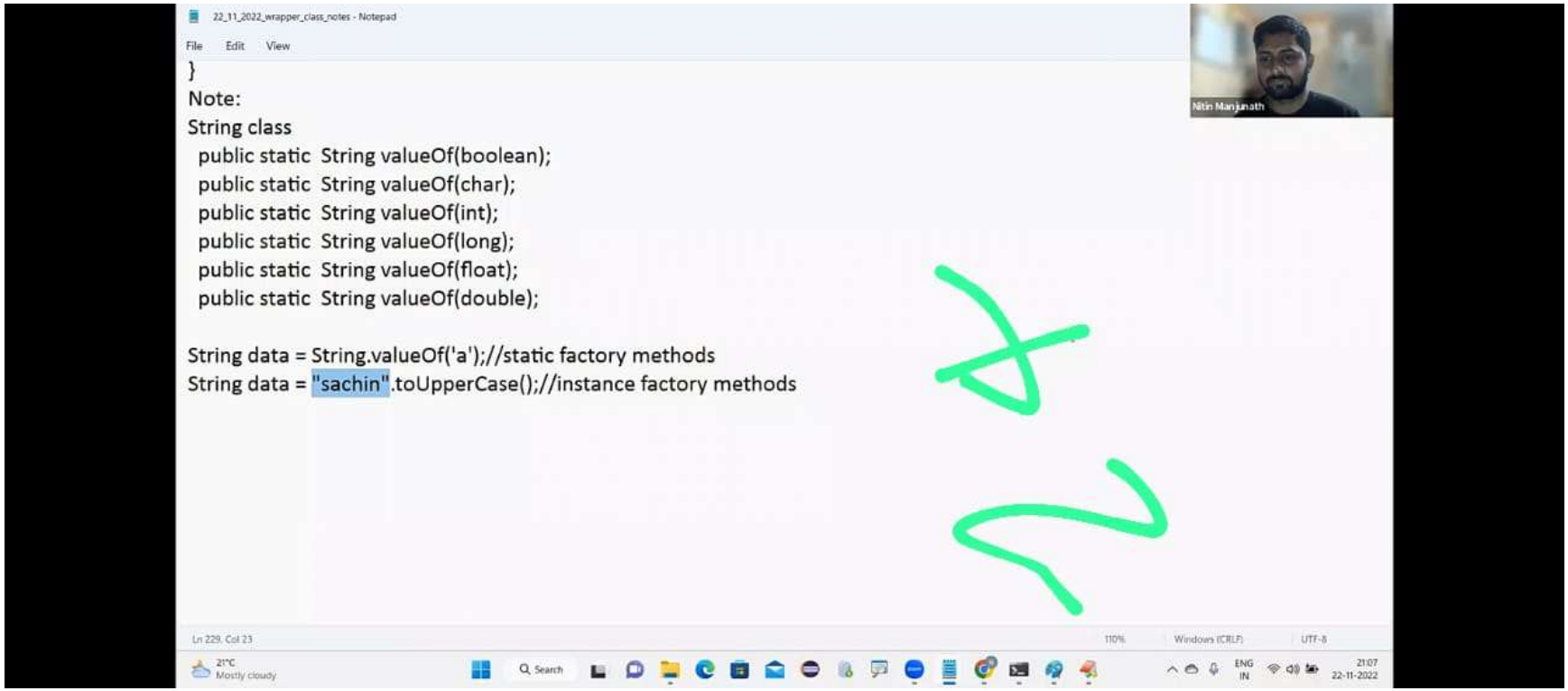
22-11-2022


Nitin Manjunath
// String/primtive to wrapper => valueOf()
// Wrapper type to primitive => xxxValue()
// String type to primitive => parseXXX()
// Primitive type to String => toString(),toHexString(),toBinaryString(),toOctalStri
class Test
{
public static void main(String[] args)
{
String result1 = Integer.toString(7,2);// 111
String result2 = Integer.toString(10,8);// 111
String result3 = Integer.toString(10,16);// 111
System.out.println(result1);
System.out.println(result2);
System.out.println(result3);


22_11_2022_utility_methods - Paint
File
View
Clipboard
Image
Tools
Brushes
Shapes
Size
Colours
Nitin Manjunath
String
toString()
toString()
parseXXX()
valueOf()
Wrapper Object
xxxValue()
Primitive type
valueOf()
26, 928px
1001 × 518px
3490 × 3830px
Size: 94.6KB
100%
21°C
Mostly cloudy
Search
ENG
IN
21:02
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
File Edit View
}
Note:
String class
public static String valueOf(boolean);
public static String valueOf(char);
public static String valueOf(int);
public static String valueOf(long);
public static String valueOf(float);
public static String valueOf(double);
String data = String.valueOf('a');//static factory methods
String data = "sachin".toUpperCase();//instance factory methods
Nitin Manjunath
Ln 229, Col 23
110%
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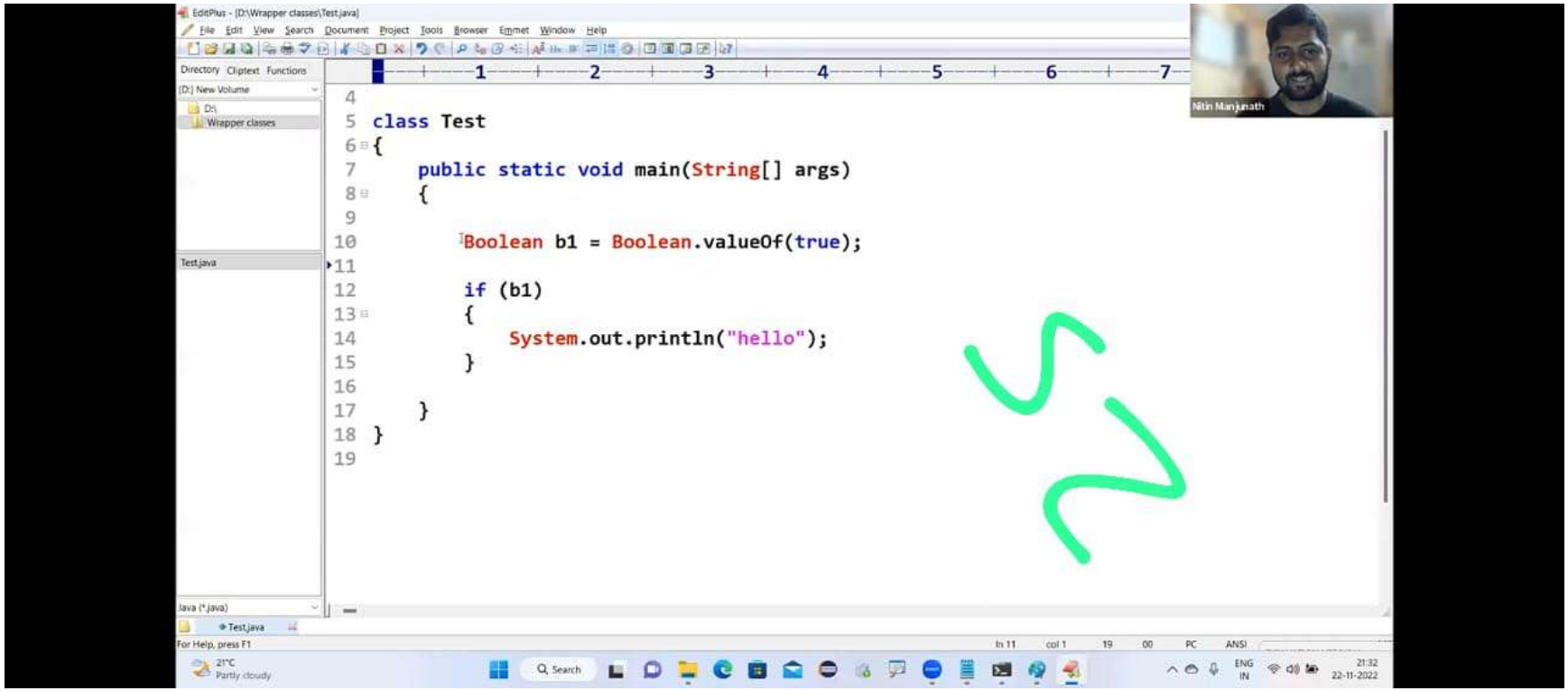
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
File Edit View Search Document Project Tools Browser Emmet Window Help
Directory Cliptext Functions
(D:) New Volume
D:\
Wrapper classes
Test.java
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
Boolean b1 = Boolean.valueOf(true);
if (b1)
{
System.out.println("hello");
}
}
}
Test.java
For Help, press F1
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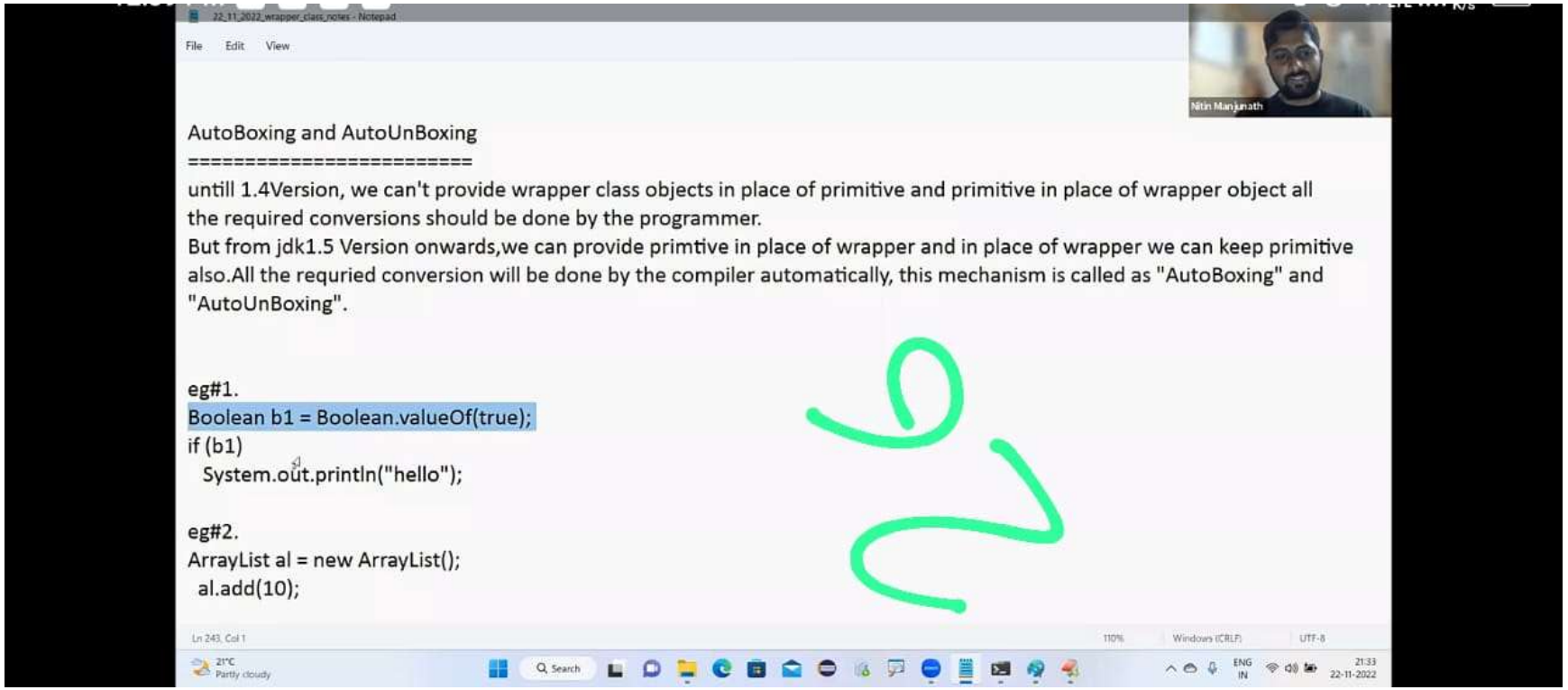
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
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AutoBoxing and AutoUnBoxing
==========
untill 1.4Version, we can't provide wrapper class objects in place of primitive and primitive in place of wrapper object all the required conversions should be done by the programmer.
But from jdk1.5 Version onwards,we can provide primtive in place of wrapper and in place of wrapper we can keep primitive also.All the requried conversion will be done by the compiler automatically, this mechanism is called as "AutoBoxing" and "AutoUnBoxing".
eg#1.
Boolean b1 = Boolean.valueOf(true);
if (b1)
System.out.println("hello");
eg#2.
ArrayList al = new ArrayList();
al.add(10);
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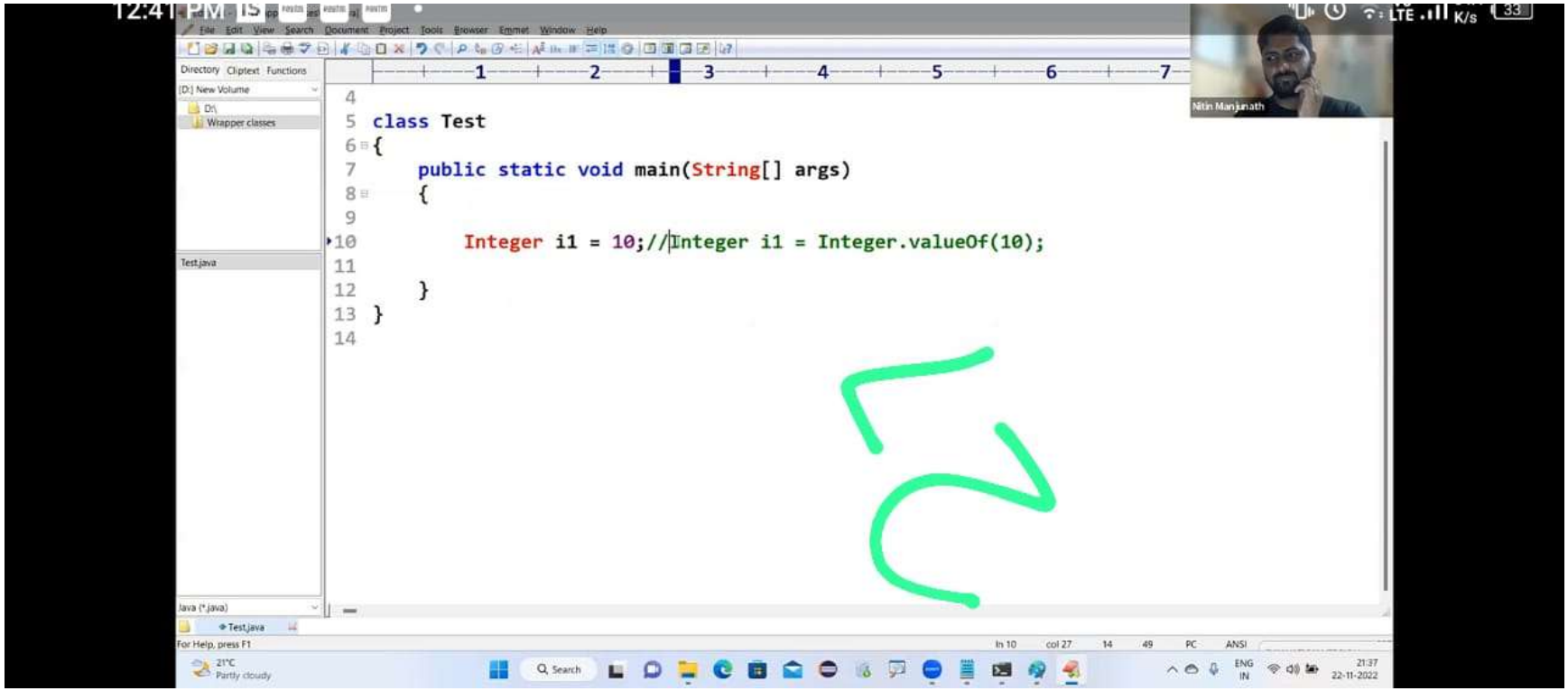
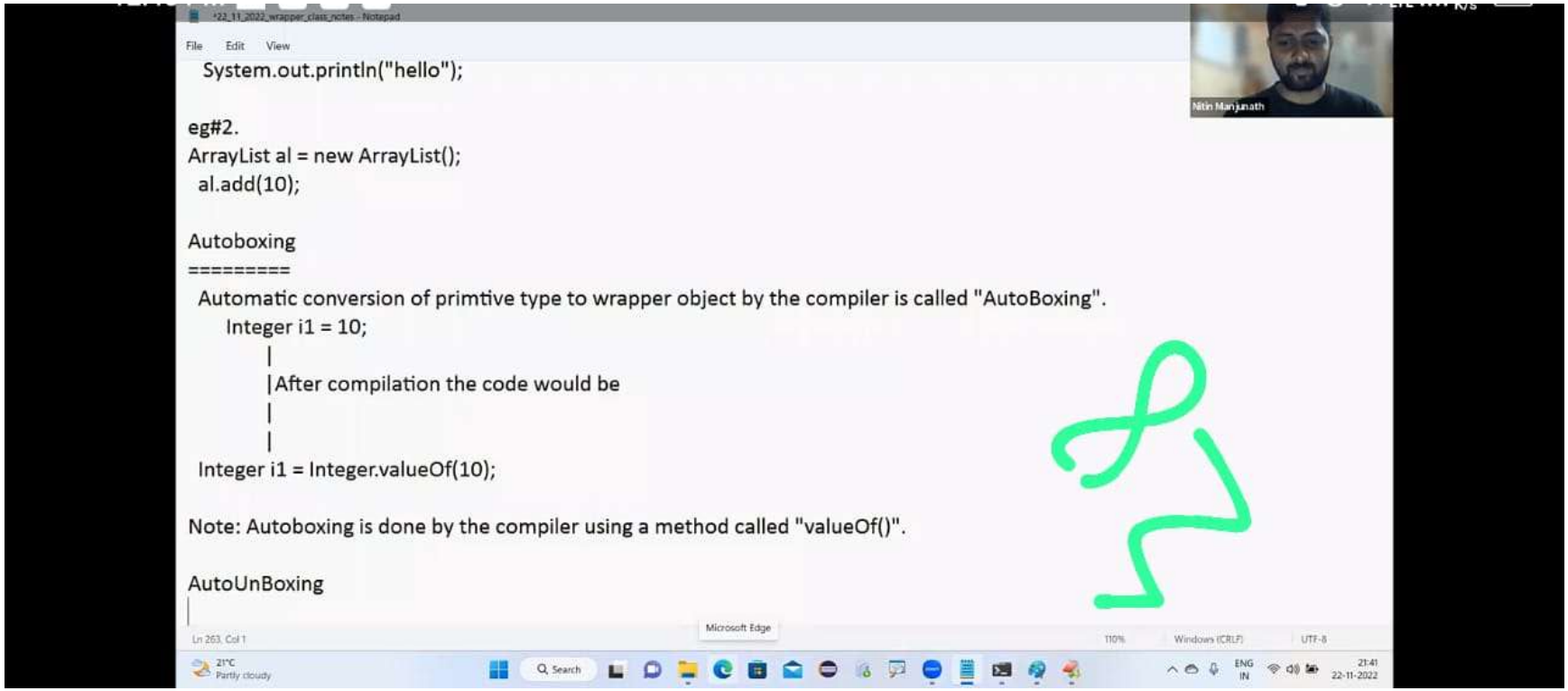
22-11-2022


Nitin Manjunath
class Test
{
public static void main(String[] args)
{
Integer i1 = 10;//Integer i1 = Integer.valueOf(10);
}
}


*22_11_2022_wrapper_class_notes - Notepad
File Edit View
System.out.println("hello");
eg#2.
ArrayList al = new ArrayList();
al.add(10);
Autoboxing
=========
Automatic conversion of primtive type to wrapper object by the compiler is called "AutoBoxing".
Integer i1 = 10;
|
|After compilation the code would be
|
|
Integer i1 = Integer.valueOf(10);
Note: Autoboxing is done by the compiler using a method called "valueOf()".
AutoUnBoxing
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Microsoft Edge
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UTF-8
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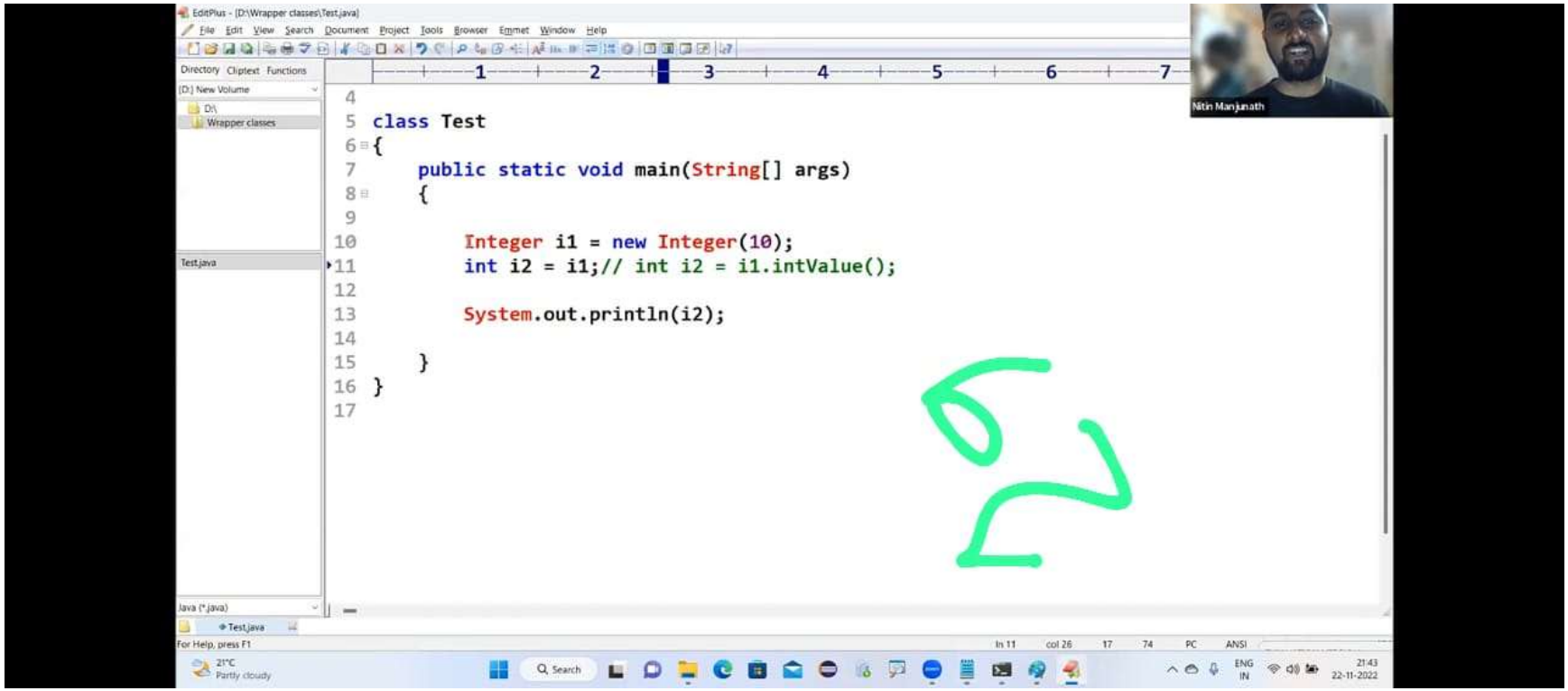
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
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Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Ln 11 col 26 17 74 PC ANSI
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
Integer i1 = new Integer(10);
int i2 = i1;// int i2 = i1.intValue();
System.out.println(i2);
}
}
21°C
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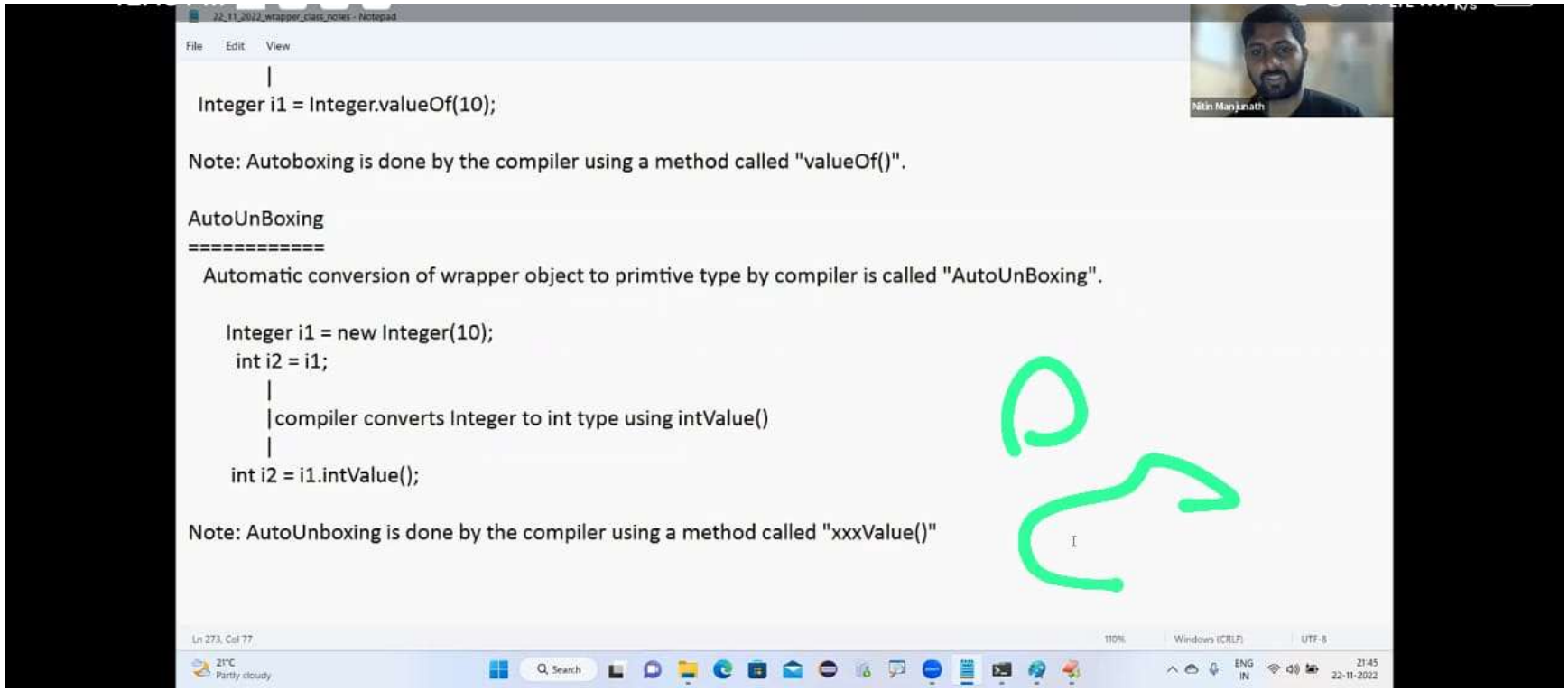
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
File Edit View
Integer i1 = Integer.valueOf(10);
Note: Autoboxing is done by the compiler using a method called "valueOf()".
AutoUnBoxing
Automatic conversion of wrapper object to primtive type by compiler is called "AutoUnBoxing".
Integer i1 = new Integer(10);
int i2 = i1;
compiler converts Integer to int type using intValue()
int i2 = i1.intValue();
Note: AutoUnboxing is done by the compiler using a method called "xxxValue()"
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Ln 273, Col 77
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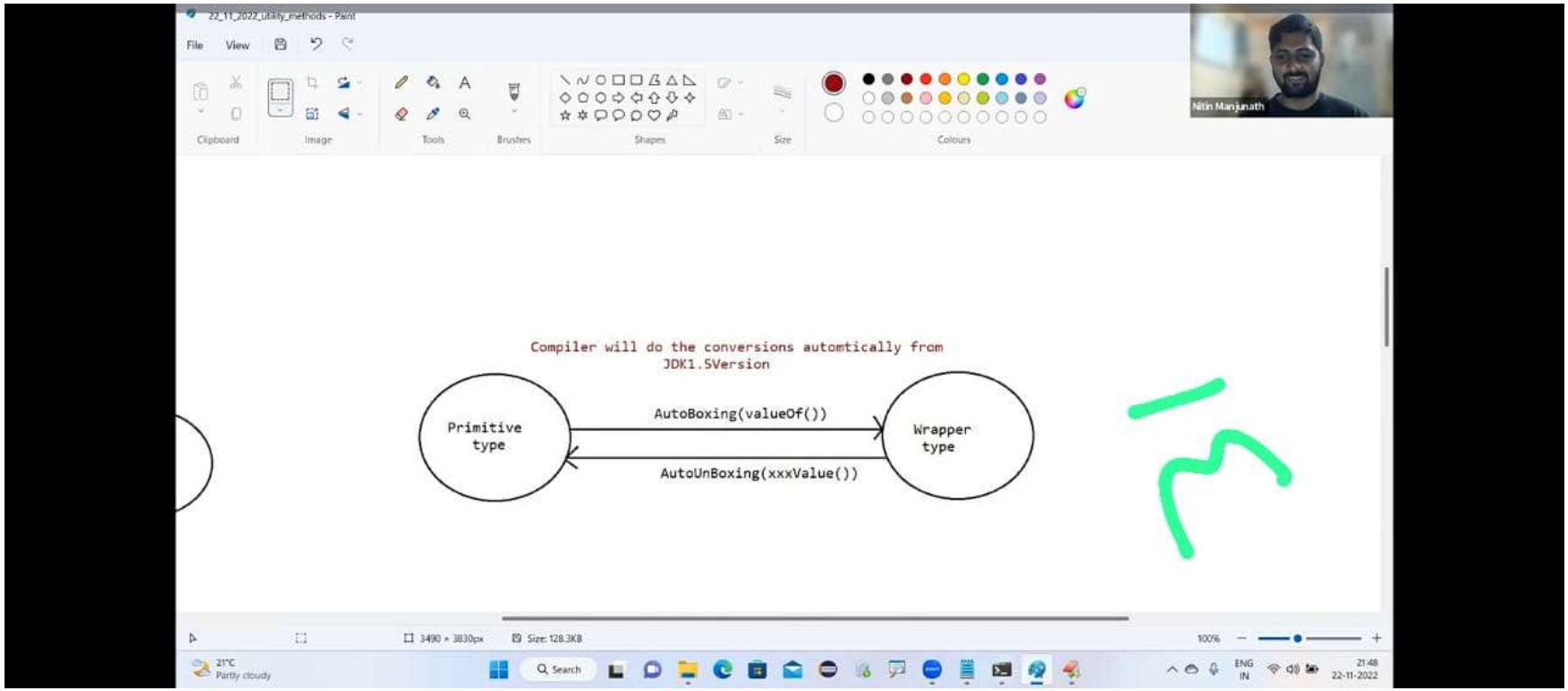
22-11-2022


22_11_2022_utility_methods - Paint
File
View
Clipboard
Image
Tools
Brushes
Shapes
Size
Colours
Nitin Manjunath
Compiler will do the conversions automtically from
JDK1.5Version
Primitive type
AutoBoxing(valueOf())
AutoUnBoxing(xxxValue())
Wrapper type
3490 × 3830px
Size: 128.3KB
100%
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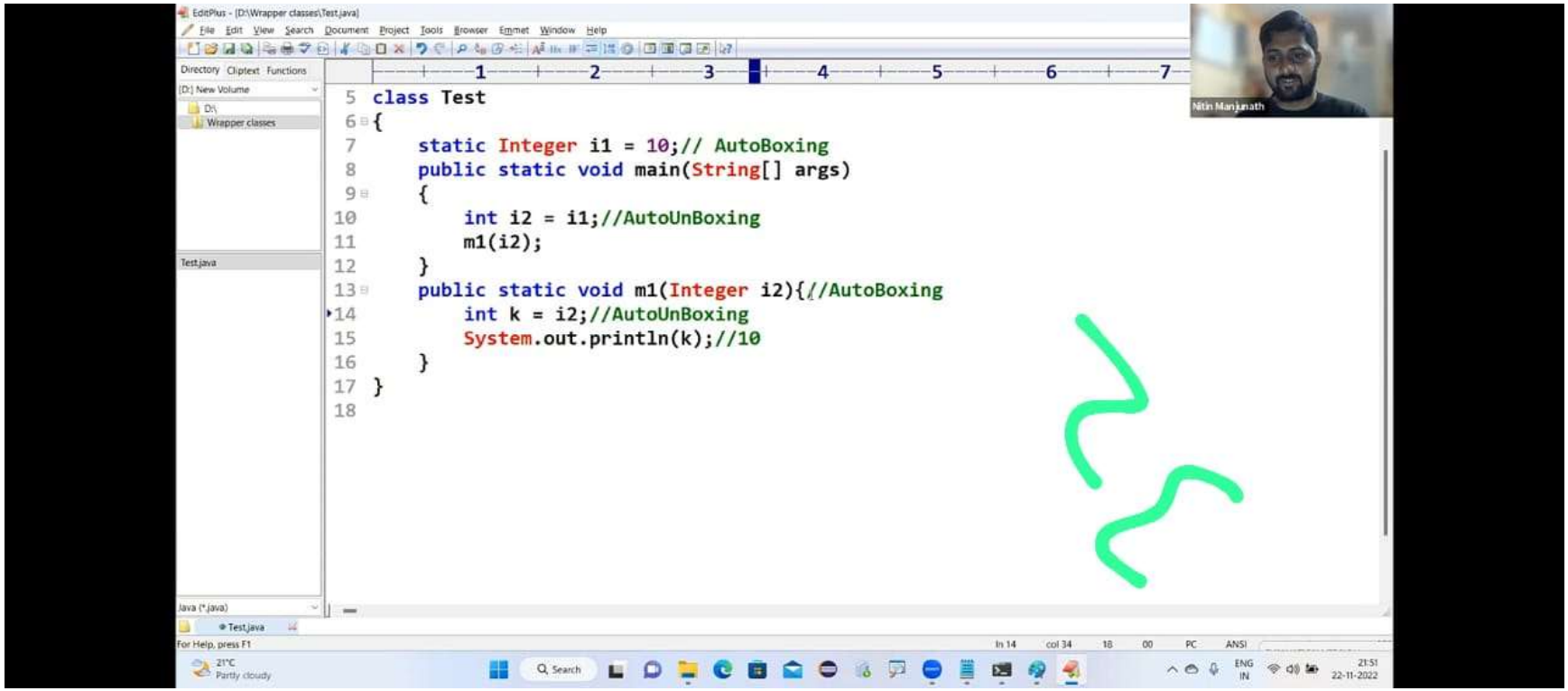
21:48
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
File Edit View Search Document Project Tools Browser Emmet Window Help
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Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
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21°C
Partly cloudy
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21:51
22-11-2022
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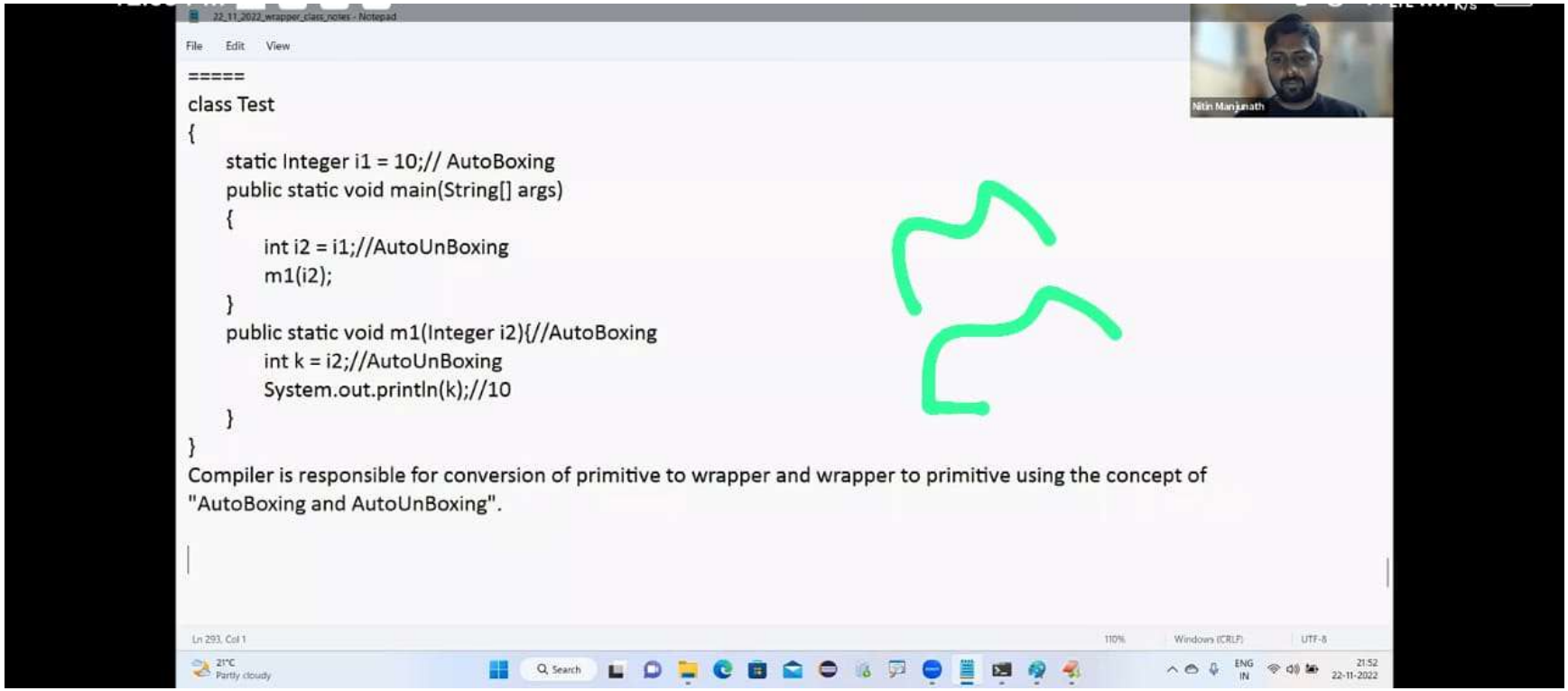
5 class Test
6 {
7 static Integer i1 = 10;// AutoBoxing
8 public static void main(String[] args)
9 {
10 int i2 = i1;//AutoUnBoxing
11 m1(i2);
12 }
13 public static void m1(Integer i2){//AutoBoxing
14 int k = i2;//AutoUnBoxing
15 System.out.println(k);//10
16 }
17 }
18


22_11_2022_wrapper_class_notes - Notepad
File Edit View
=====
class Test
{
static Integer i1 = 10;// AutoBoxing
public static void main(String[] args)
{
int i2 = i1;//AutoUnBoxing
m1(i2);
}
public static void m1(Integer i2){//AutoBoxing
int k = i2;//AutoUnBoxing
System.out.println(k);//10
}
}
Compiler is responsible for conversion of primitive to wrapper and wrapper to primitive using the concept of
"AutoBoxing and AutoUnBoxing".
Nitin Manjunath
Ln 293, Col 1
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UTF-8
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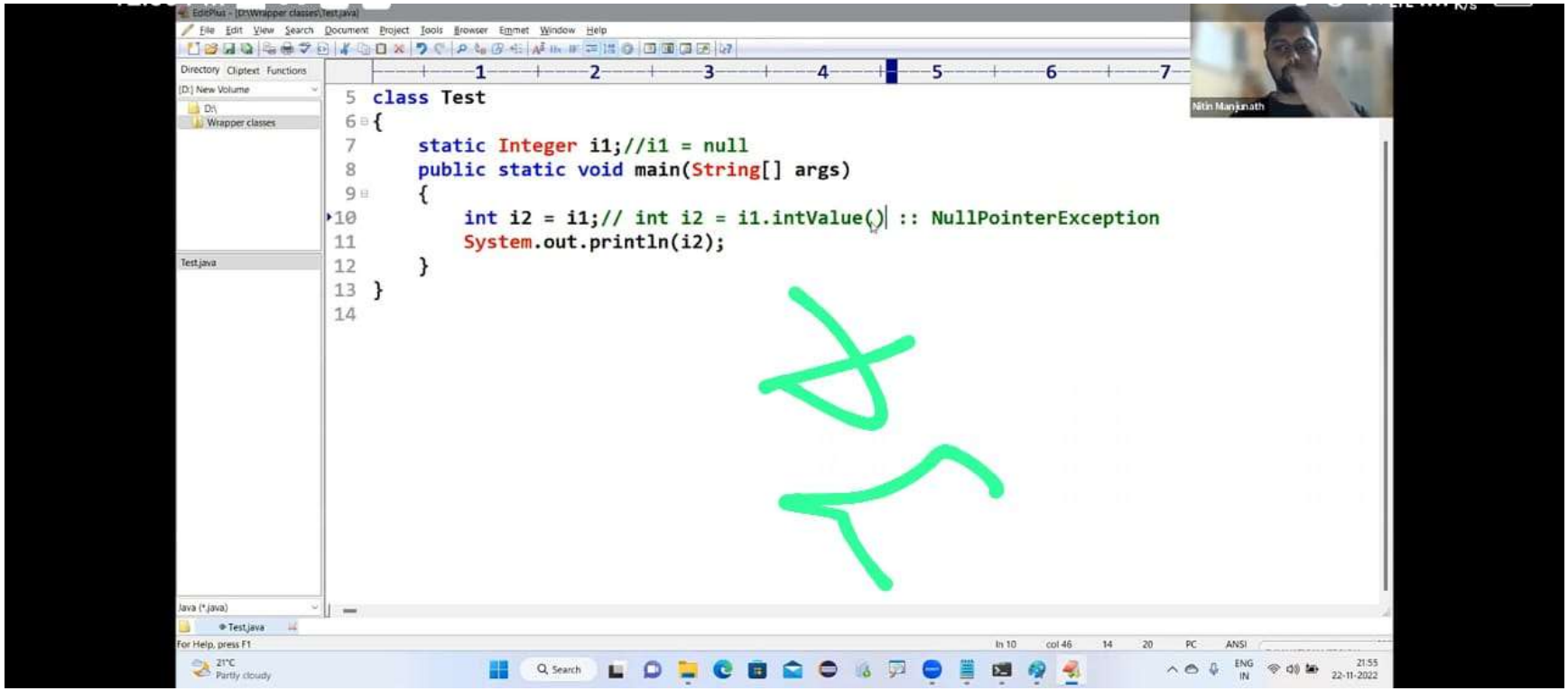
21:52
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
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Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Ln 10 col 46 14 20 PC ANSI
Nitin Manjunath
class Test
{
static Integer i1;//i1 = null
public static void main(String[] args)
{
int i2 = i1;// int i2 = i1.intValue() :: NullPointerException
System.out.println(i2);
}
}
21°C
Partly cloudy
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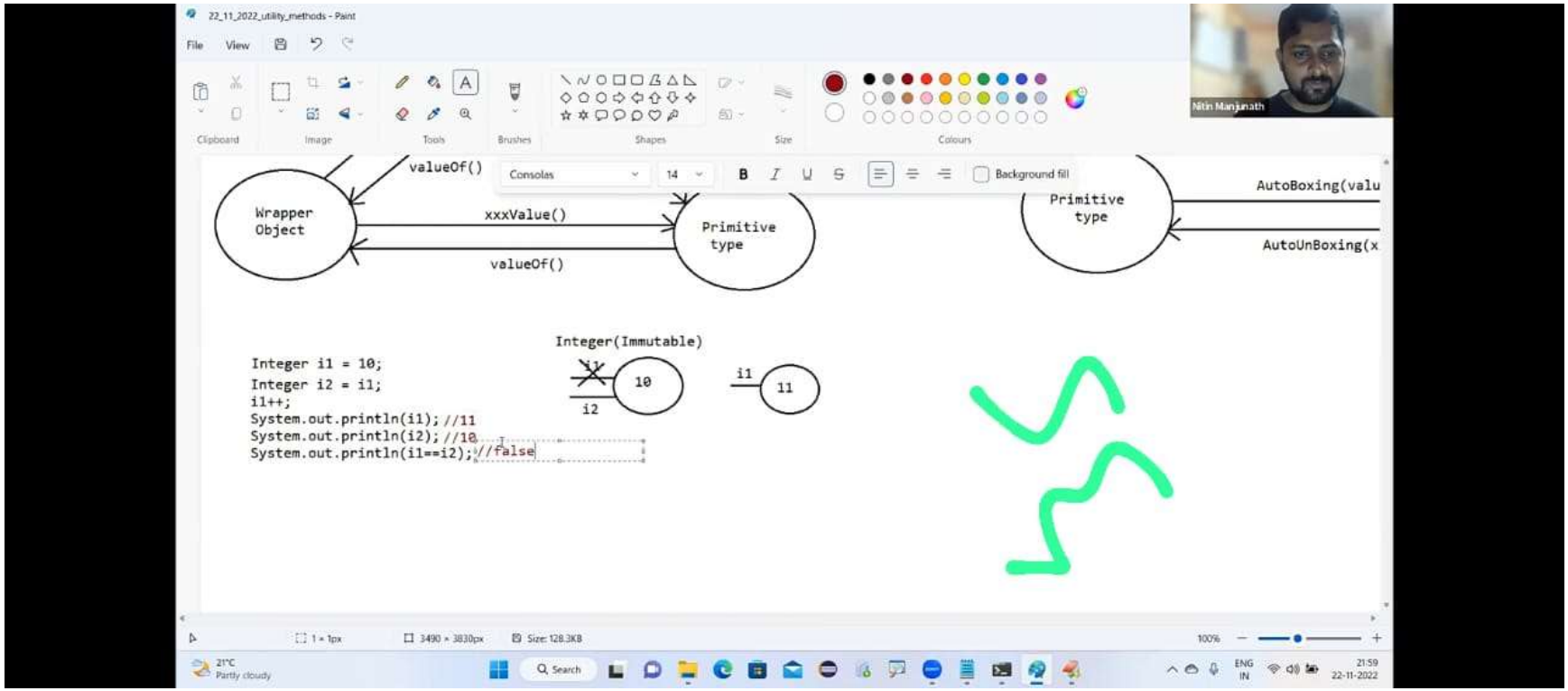
21:55
22-11-2022


22_11_2022_utility_methods - Paint
File
View
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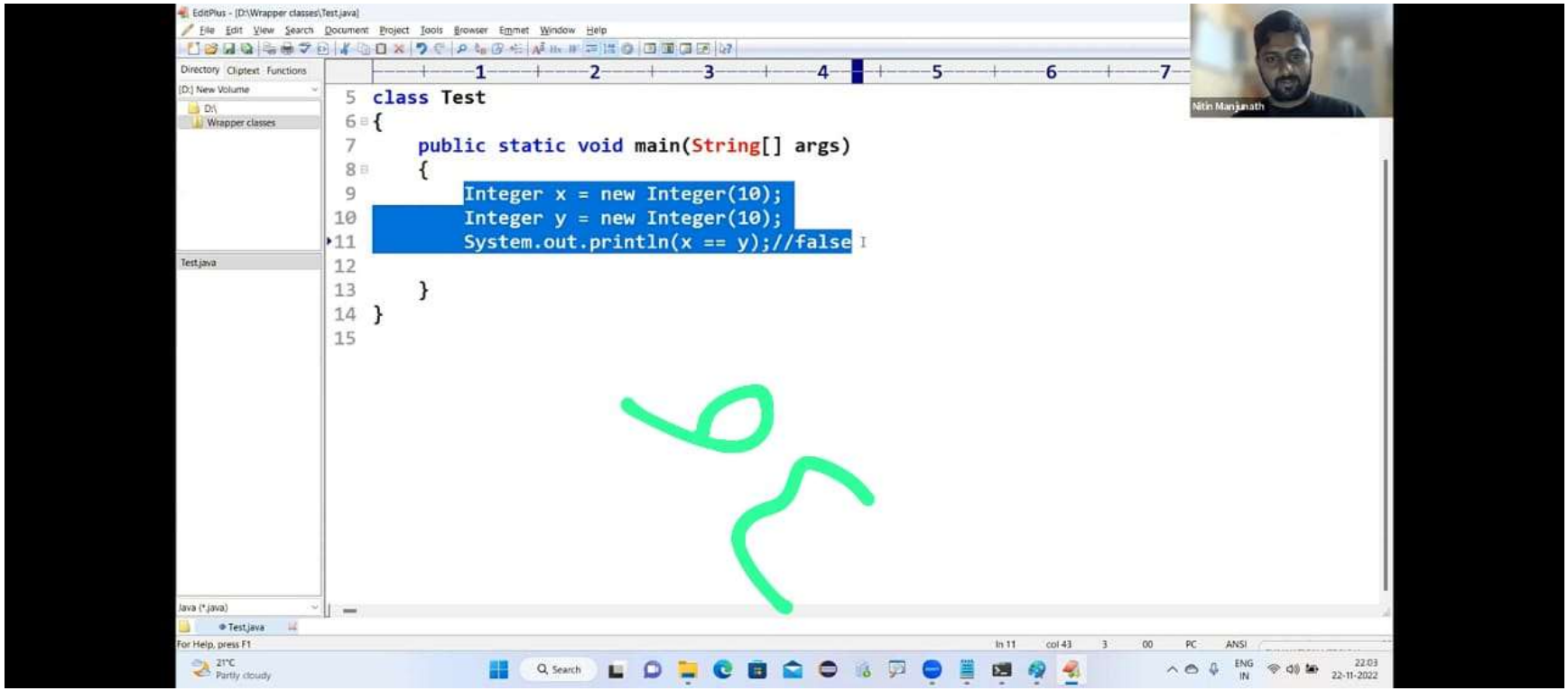
valueOf()
Wrapper Object
xxxValue()
valueOf()
Primitive type
Primitive type
AutoBoxing(valu
AutoUnBoxing(x
Integer(Immutable)
Integer i1 = 10;
Integer i2 = i1;
i1++;
System.out.println(i1); //11
System.out.println(i2); //10
System.out.println(i1==i2);//false
i1
10
i2
i1
11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Wrapper classes
Test.java
Java (*.java)
Test.java
class Test
{
public static void main(String[] args)
{
Integer x = new Integer(10);
Integer y = new Integer(10);
System.out.println(x == y);//false
}
}
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For Help, press F1
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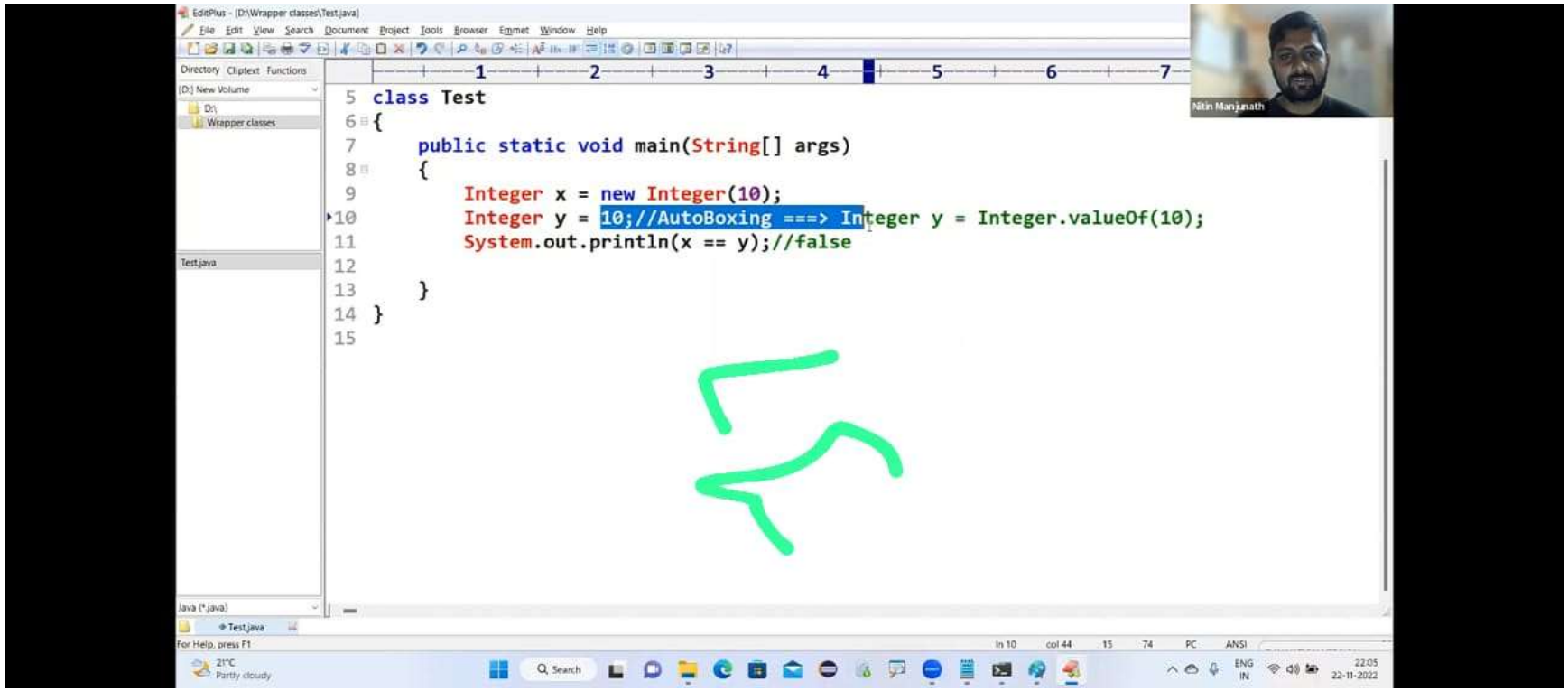
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
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Directory Cliptext Functions
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D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
Nitin Manjunath
class Test
{
public static void main(String[] args)
{
Integer x = new Integer(10);
Integer y = 10;//AutoBoxing ===> Integer y = Integer.valueOf(10);
System.out.println(x == y);//false
}
}
For Help, press F1
ln 10 col 44 15 74 PC ANSI
21°C
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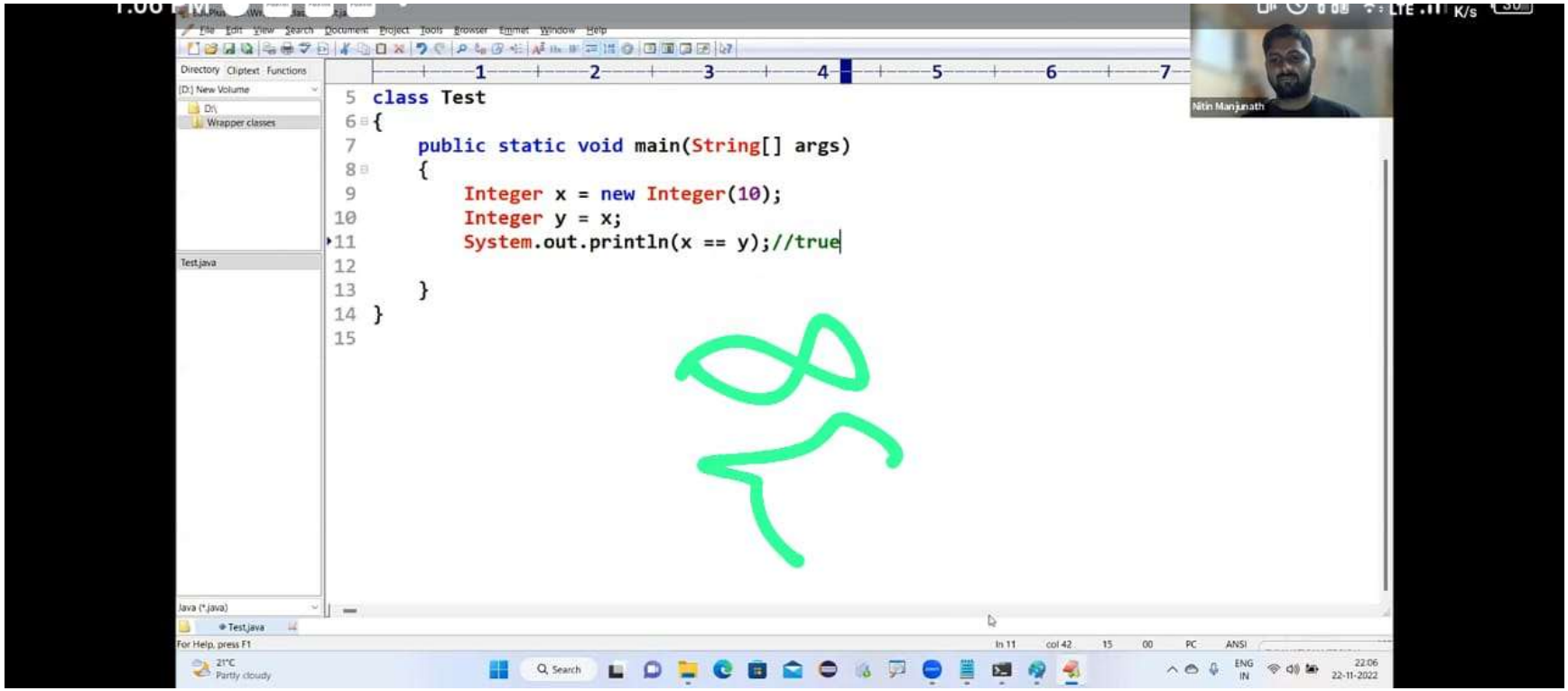
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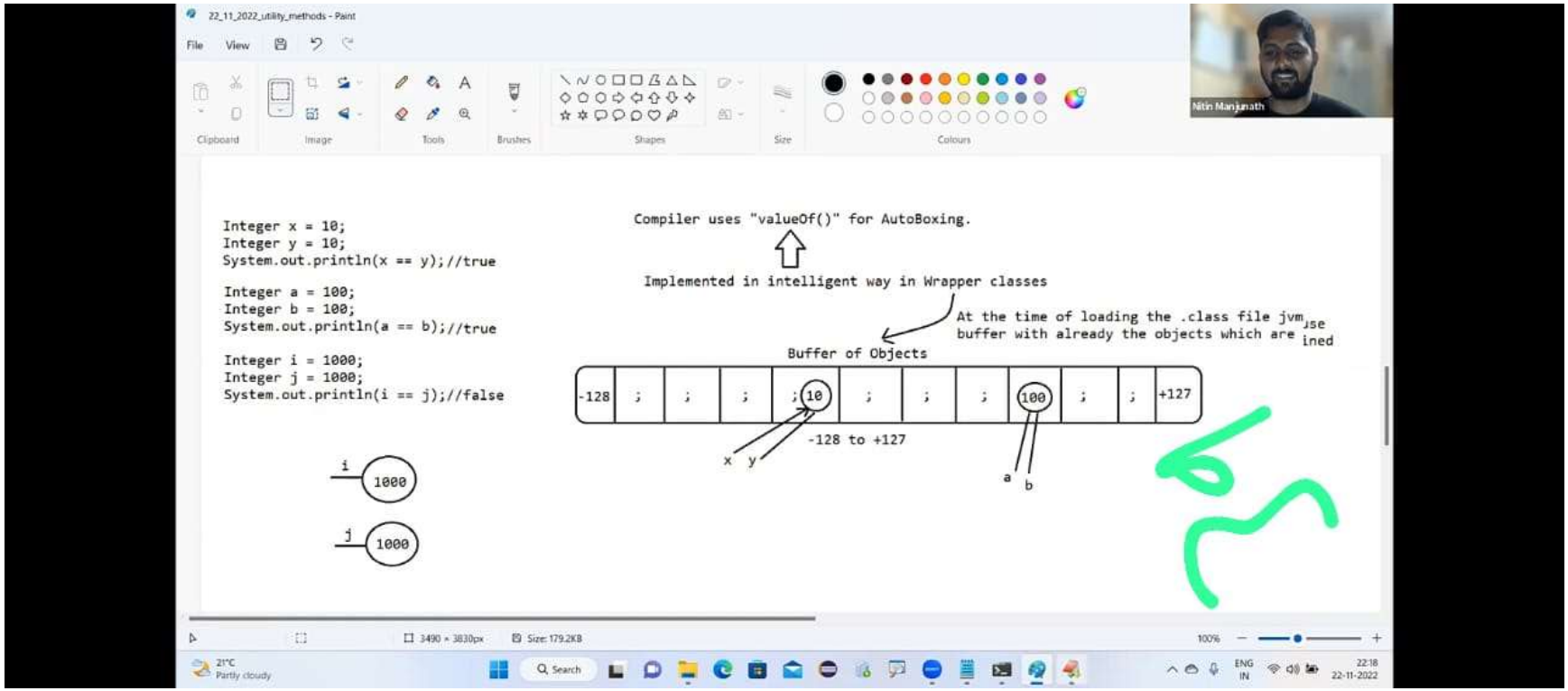
class Test
{
public static void main(String[] args)
{
Integer x = new Integer(10);
Integer y = x;
System.out.println(x == y);//true
}
}


22_11_2022_utility_methods - Paint
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Brushes
Shapes
Size
Colours
Nitin Manjunath
Integer x = 10;
Integer y = 10;
System.out.println(x == y);//true
Integer a = 100;
Integer b = 100;
System.out.println(a == b);//true
Integer i = 1000;
Integer j = 1000;
System.out.println(i == j);//false
i
1000
j
1000
Compiler uses "valueOf()" for AutoBoxing.
Implemented in intelligent way in Wrapper classes
At the time of loading the .class file jvm use
buffer with already the objects which are ined
Buffer of Objects
-128
10
100
+127
-128 to +127
x
y
a
b
3490 × 3830px
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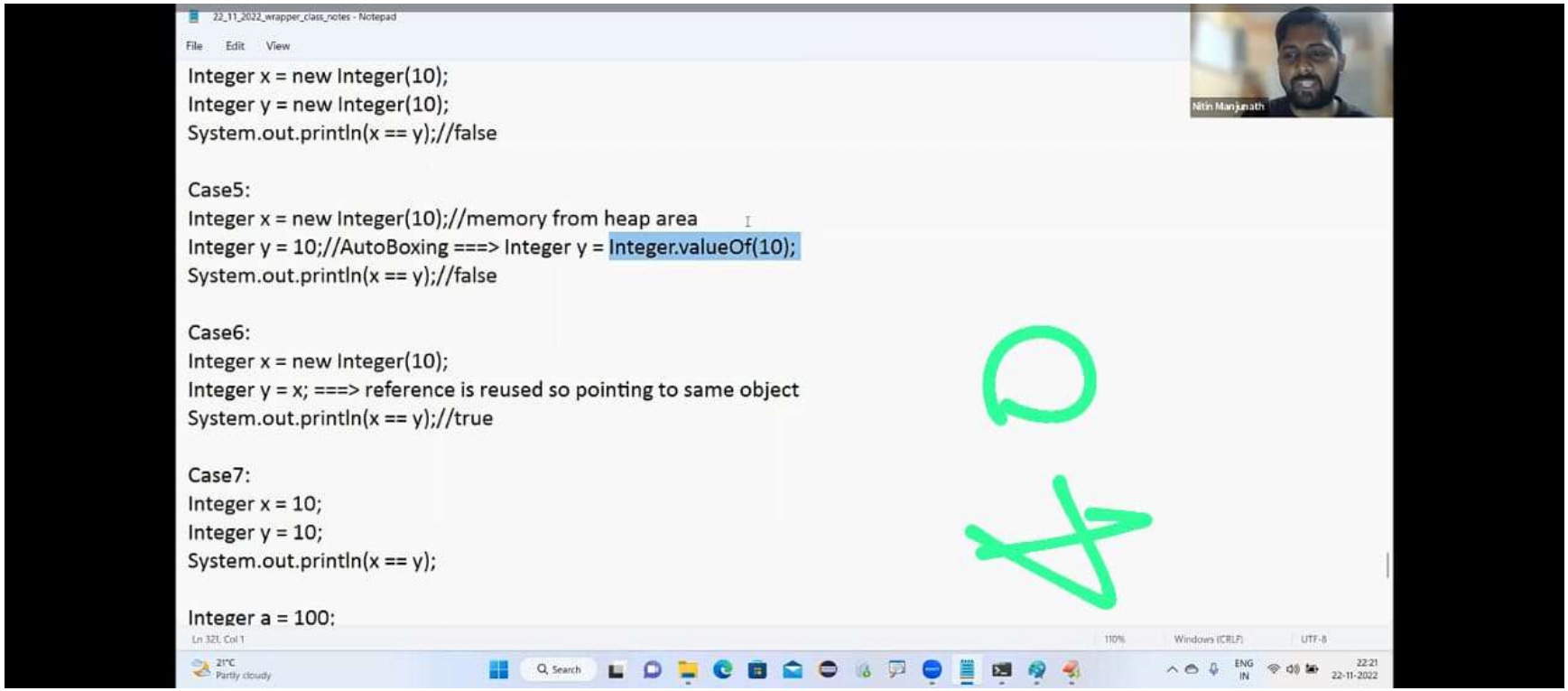
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
File Edit View
Integer x = new Integer(10);
Integer y = new Integer(10);
System.out.println(x == y);//false
Case5:
Integer x = new Integer(10);//memory from heap area
Integer y = 10;//AutoBoxing ===> Integer y = Integer.valueOf(10);
System.out.println(x == y);//false
Case6:
Integer x = new Integer(10);
Integer y = x; ===> reference is reused so pointing to same object
System.out.println(x == y);//true
Case7:
Integer x = 10;
Integer y = 10;
System.out.println(x == y);
Integer a = 100;
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Ln 321, Col 1
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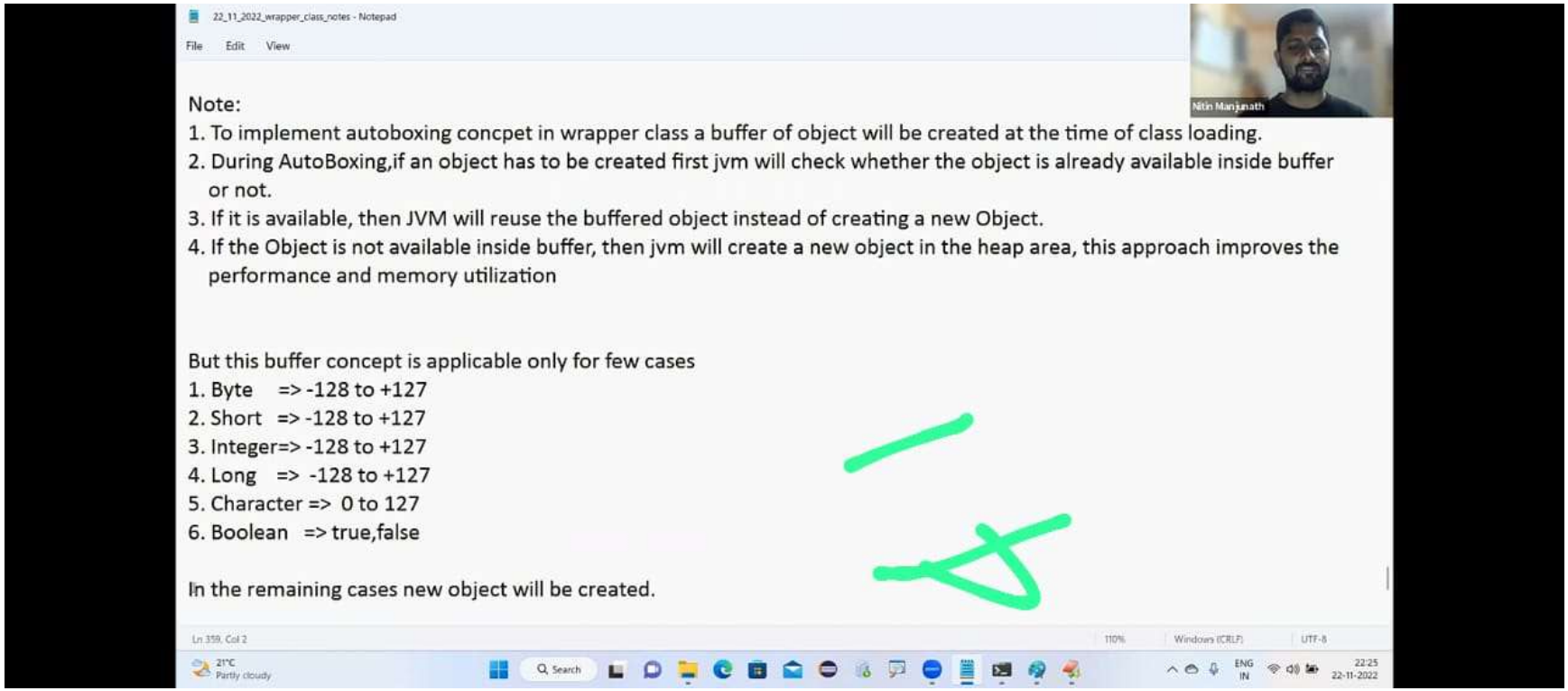
22-11-2022


22_11_2022_wrapper_class_notes - Notepad
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Note:
1. To implement autoboxing concpet in wrapper class a buffer of object will be created at the time of class loading.
2. During AutoBoxing,if an object has to be created first jvm will check whether the object is already available inside buffer or not.
3. If it is available, then JVM will reuse the buffered object instead of creating a new Object.
4. If the Object is not available inside buffer, then jvm will create a new object in the heap area, this approach improves the performance and memory utilization
But this buffer concept is applicable only for few cases
1. Byte => -128 to +127
2. Short => -128 to +127
3. Integer=> -128 to +127
4. Long => -128 to +127
5. Character => 0 to 127
6. Boolean => true,false
In the remaining cases new object will be created.
Ln 359, Col 2
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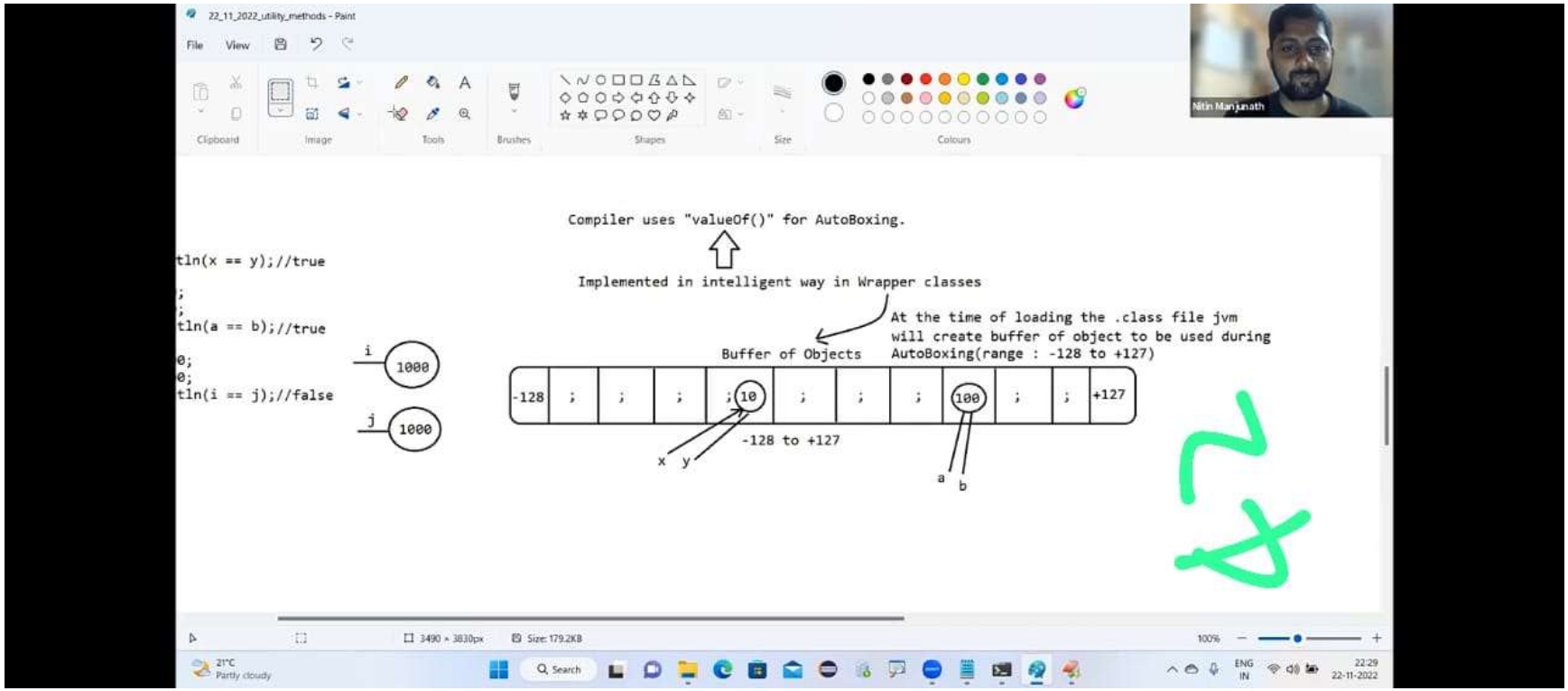
22-11-2022


22_11_2022_utility_methods - Paint
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Colours
Nitin Manjunath
Compiler uses "valueOf()" for AutoBoxing.
Implemented in intelligent way in Wrapper classes
At the time of loading the .class file jvm
will create buffer of object to be used during
AutoBoxing(range : -128 to +127)
Buffer of Objects
tln(x == y);//true
;
;
tln(a == b);//true
0;
0;
tln(i == j);//false
i
1000
j
1000
-128
10
100
+127
-128 to +127
x
y
a
b
47
3490 × 3830px
Size: 179.2KB
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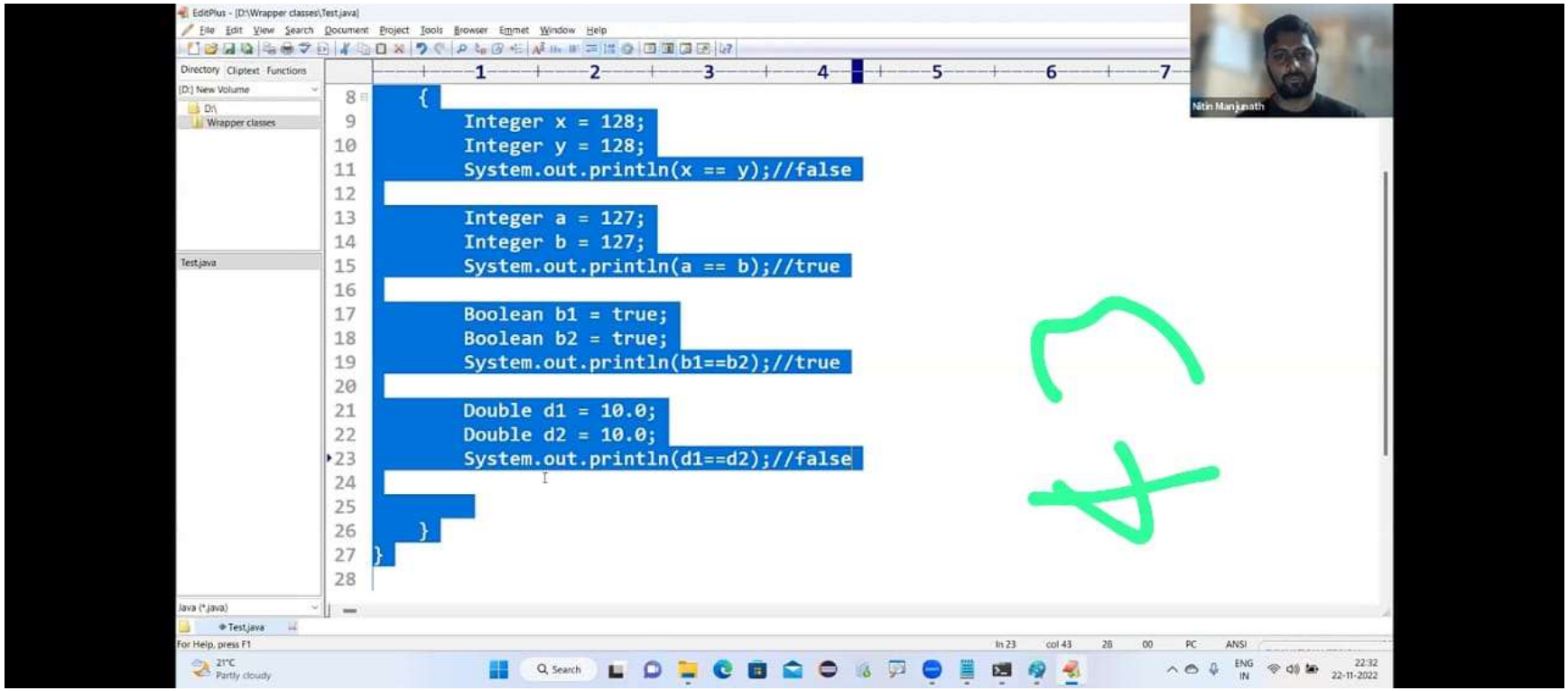
22-11-2022


EditPlus - [D:\Wrapper classes\Test.java]
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Directory Cliptext Functions
(D:) New Volume
D:\
Wrapper classes
Test.java
Java (*.java)
Test.java
For Help, press F1
Ln 23 col 43 28 00 PC ANSI
Nitin Manjunath
{
Integer x = 128;
Integer y = 128;
System.out.println(x == y);//false
Integer a = 127;
Integer b = 127;
System.out.println(a == b);//true
Boolean b1 = true;
Boolean b2 = true;
System.out.println(b1==b2);//true
Double d1 = 10.0;
Double d2 = 10.0;
System.out.println(d1==d2);//false
}
}
21°C
Partly cloudy
Search
ENG
IN
22:32
22-11-2022