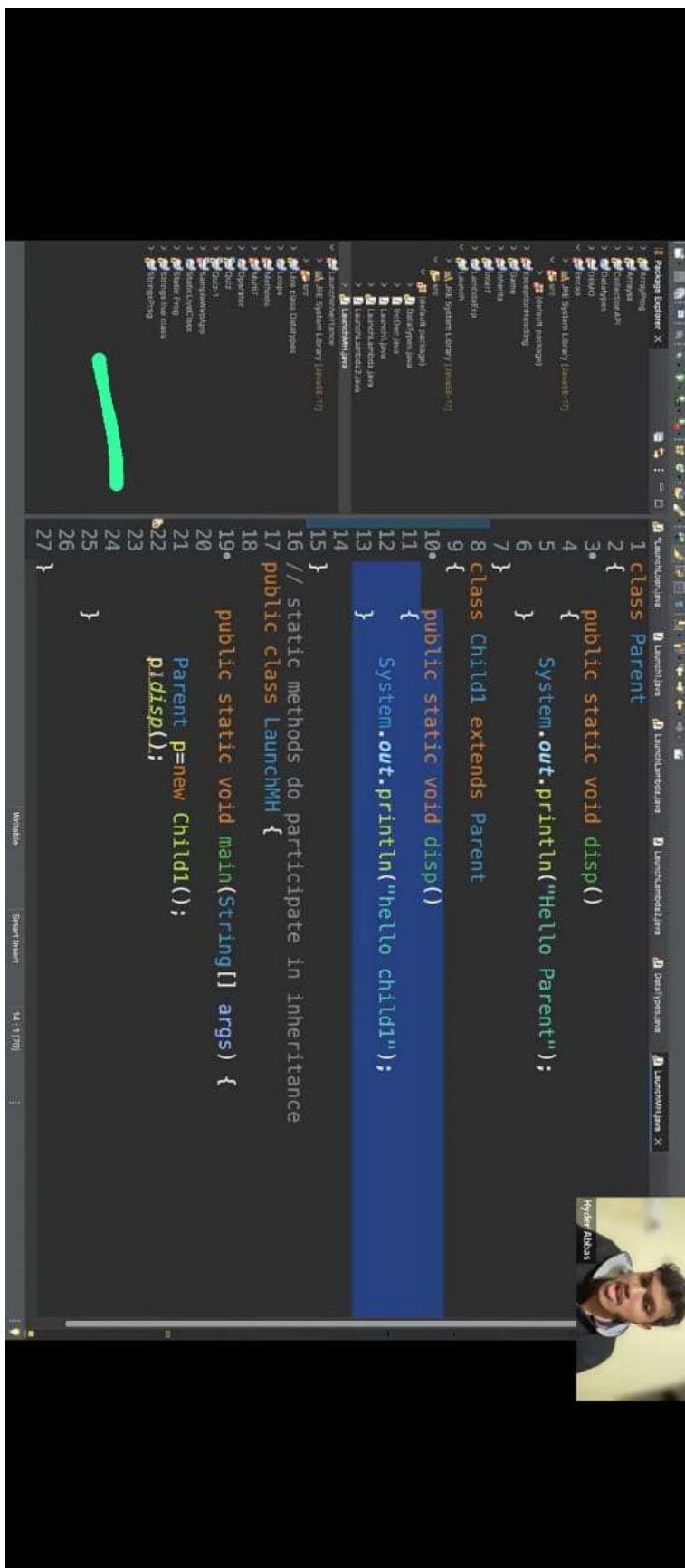
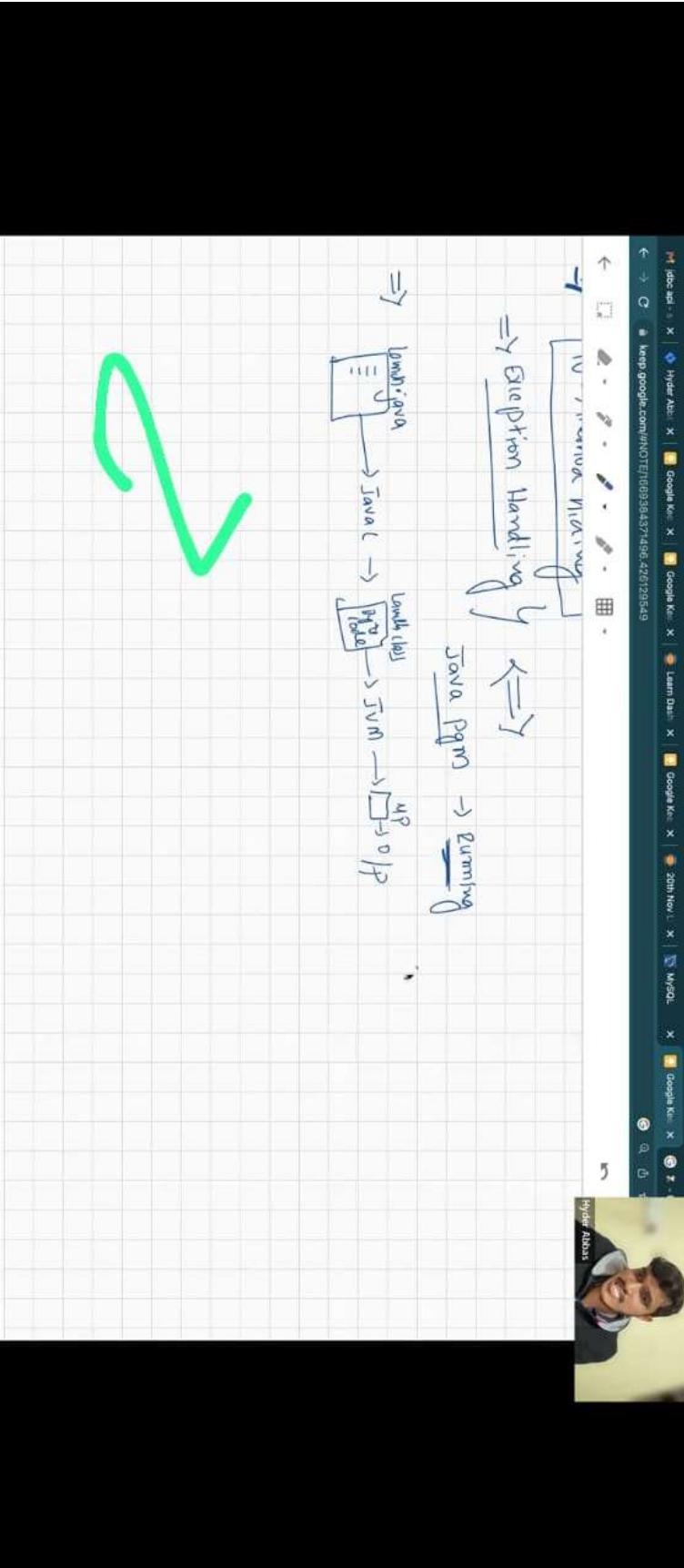
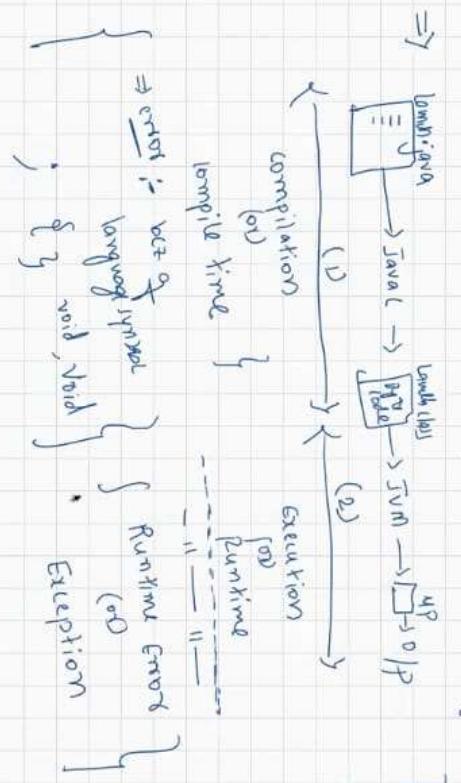


# JAVA EXCEPTION



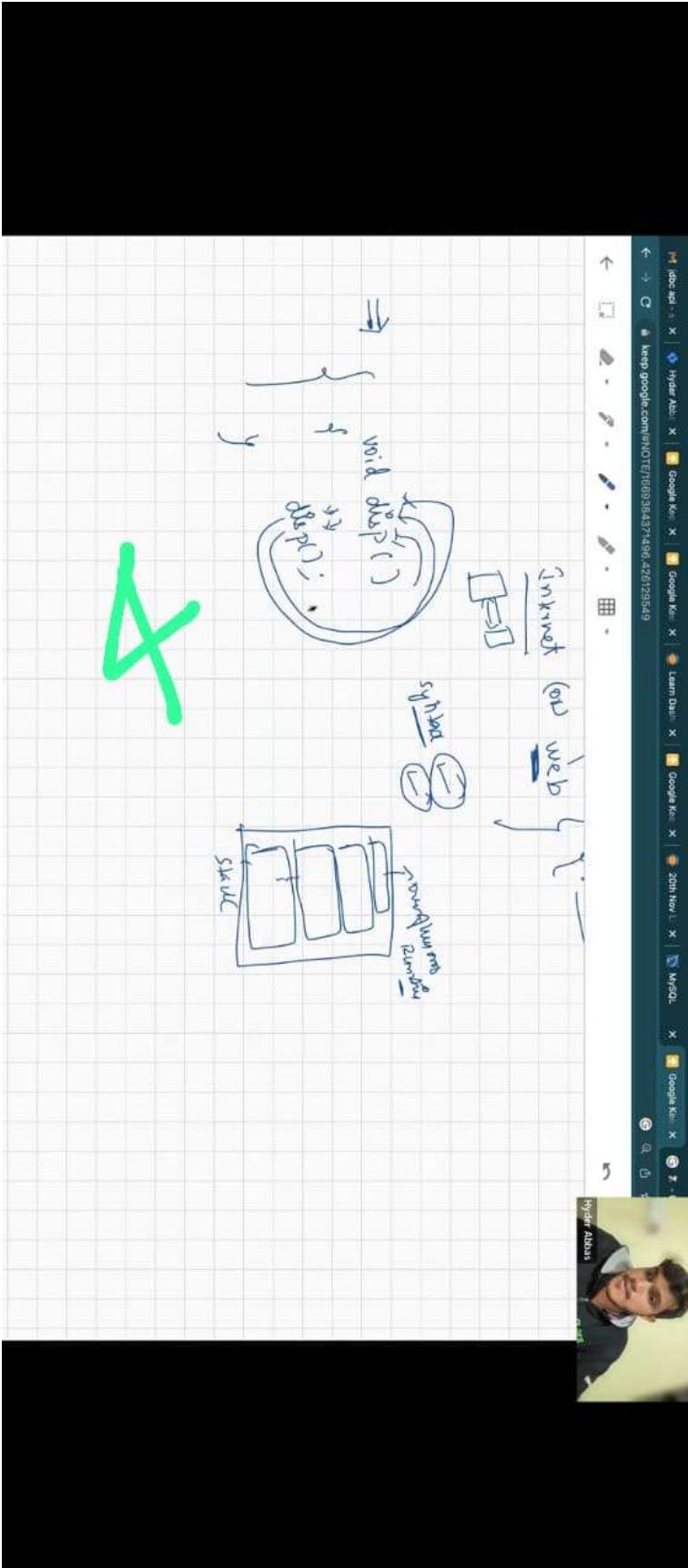
```
1 package Explorer X;
2 
3 import java.awt.*;
4 import javax.swing.*;
5 import java.awt.event.*;
6 import java.awt.image.*;
7 import java.awt.print.*;
8 import java.awt.Toolkit.*;
9 import java.awt.Container.*;
10 import java.awt.BorderLayout.*;
11 import java.awt.GridLayout.*;
12 import java.awt.GridBagLayout.*;
13 import java.awt.GridLayout.*;
14 import java.awt.GridBagLayout.*;
15 import java.awt.GridLayout.*;
16 import java.awt.GridBagLayout.*;
17 import java.awt.GridLayout.*;
18 import java.awt.GridBagLayout.*;
19 import java.awt.GridLayout.*;
20 import java.awt.GridBagLayout.*;
21 import java.awt.GridLayout.*;
22 import java.awt.GridBagLayout.*;
23 import java.awt.GridLayout.*;
24 import java.awt.GridBagLayout.*;
25 import java.awt.GridLayout.*;
26 import java.awt.GridBagLayout.*;
27 }
```





$\Rightarrow$  error :   
 {   
 }   
 ;   
 { } void, void } . Exception







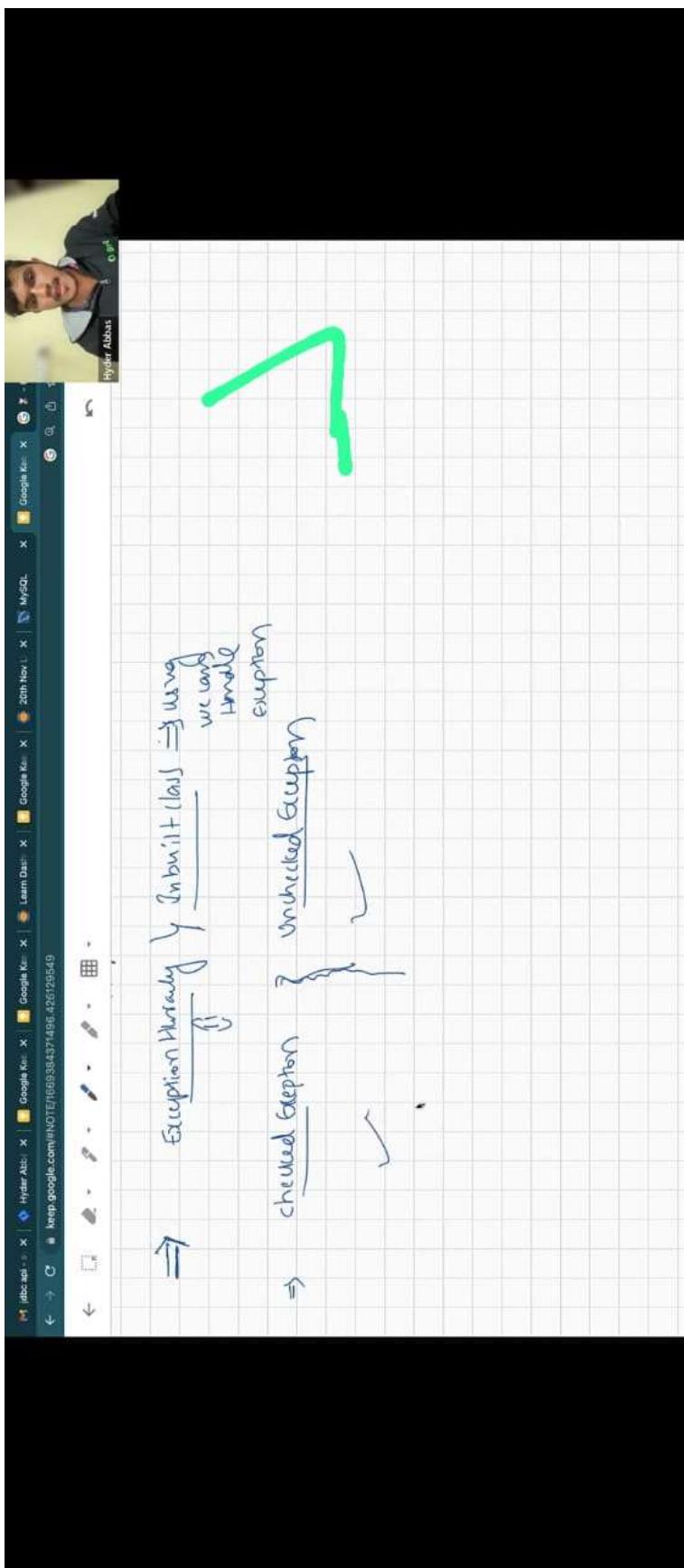
```
1 import java.util.Scanner;
2
3 public class ExceptionExam
4 {
5     public static void main(String[] args)
6     {
7         System.out.println("Connection to Calc app is established");
8
9         Scanner scan=new Scanner(System.in);
10        System.out.println("Enter the first num to divide");
11        int num1=scan.nextInt();
12        System.out.println("Enter the 2nd num to divide");
13        int num2=scan.nextInt();
14
15        int res=num1/num2;
16
17        System.out.println("The res is "+res);
18
19        System.out.println("Connection is terminated");
20
21    }
22
23}
24
25
26
27
```

Writable Smartline 11/26/2016

6

```
1 import java.util.Scanner;
2
3 public class ExceptionExm1
4 {
5     public static void main(String[] args)
6     {
7         System.out.println("Connection to Calc app is established");
8
9         Scanner Scan=new Scanner(System.in);
10
11         System.out.println("Enter the first num to divide");
12         int a=Scan.nextInt();
13         System.out.println("Enter the 2nd num to divide");
14         int b=Scan.nextInt();
15
16         if(b==0)
17             System.out.println("ArithemeticException");
18         else
19             System.out.println(a/b);
20     }
21 }
```

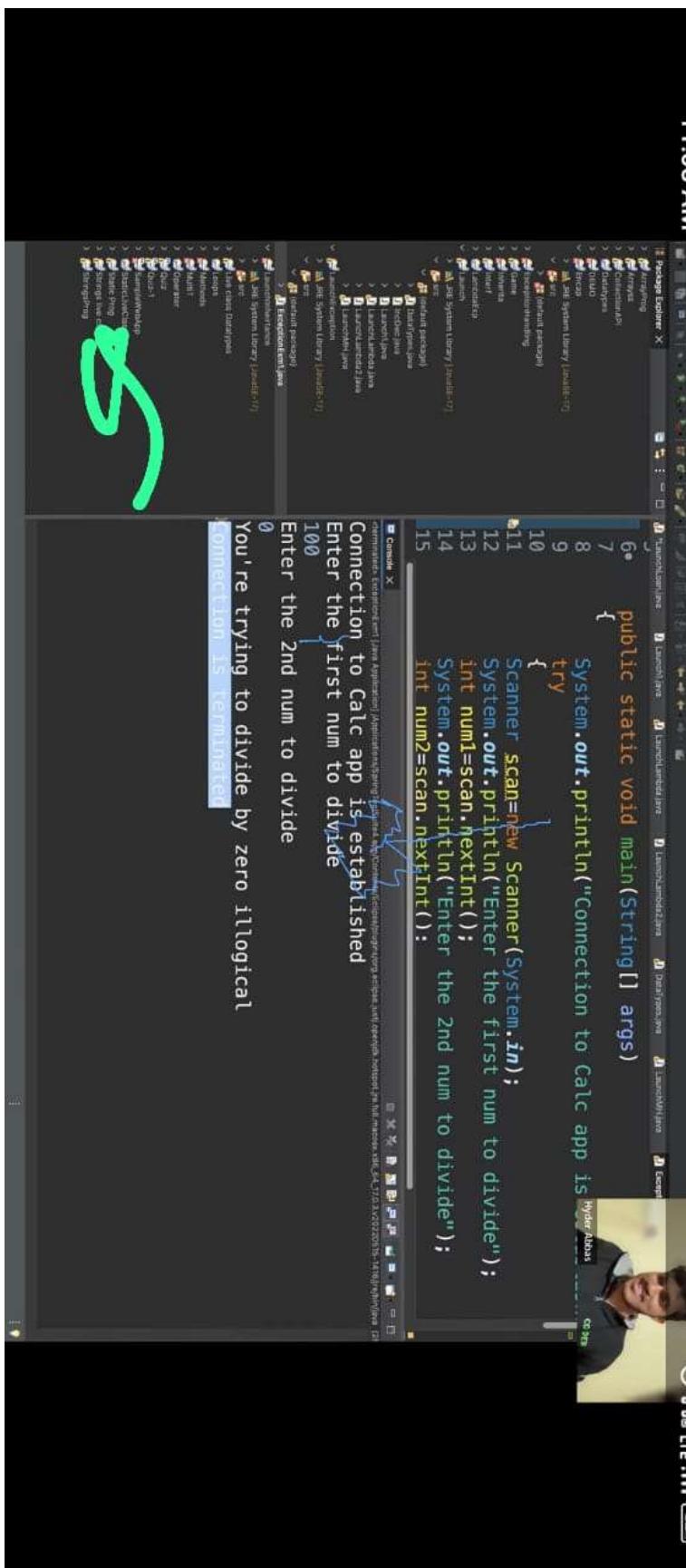
Exception in thread "main" java.lang.ArithemeticException: / by zero  
at ExceptionExm1.main(ExceptionExm1.java:16)

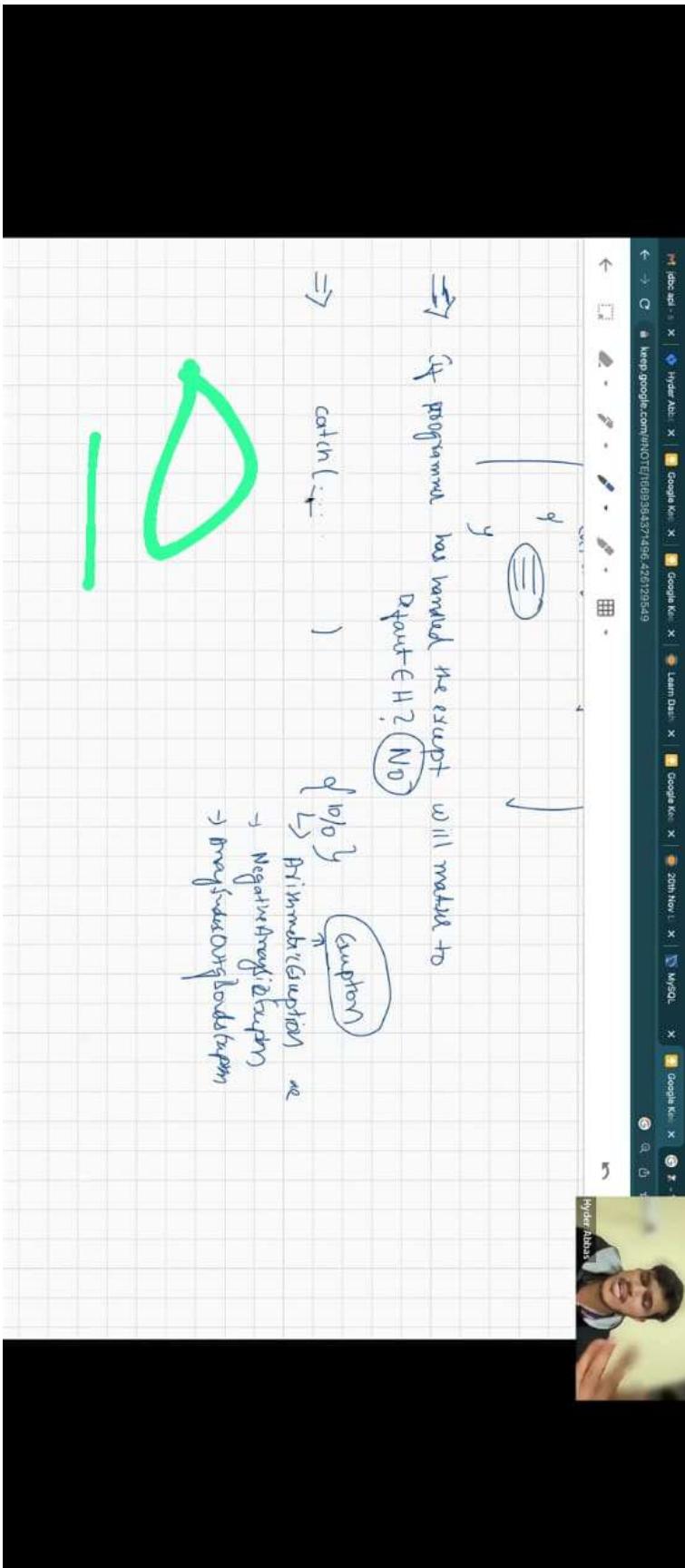


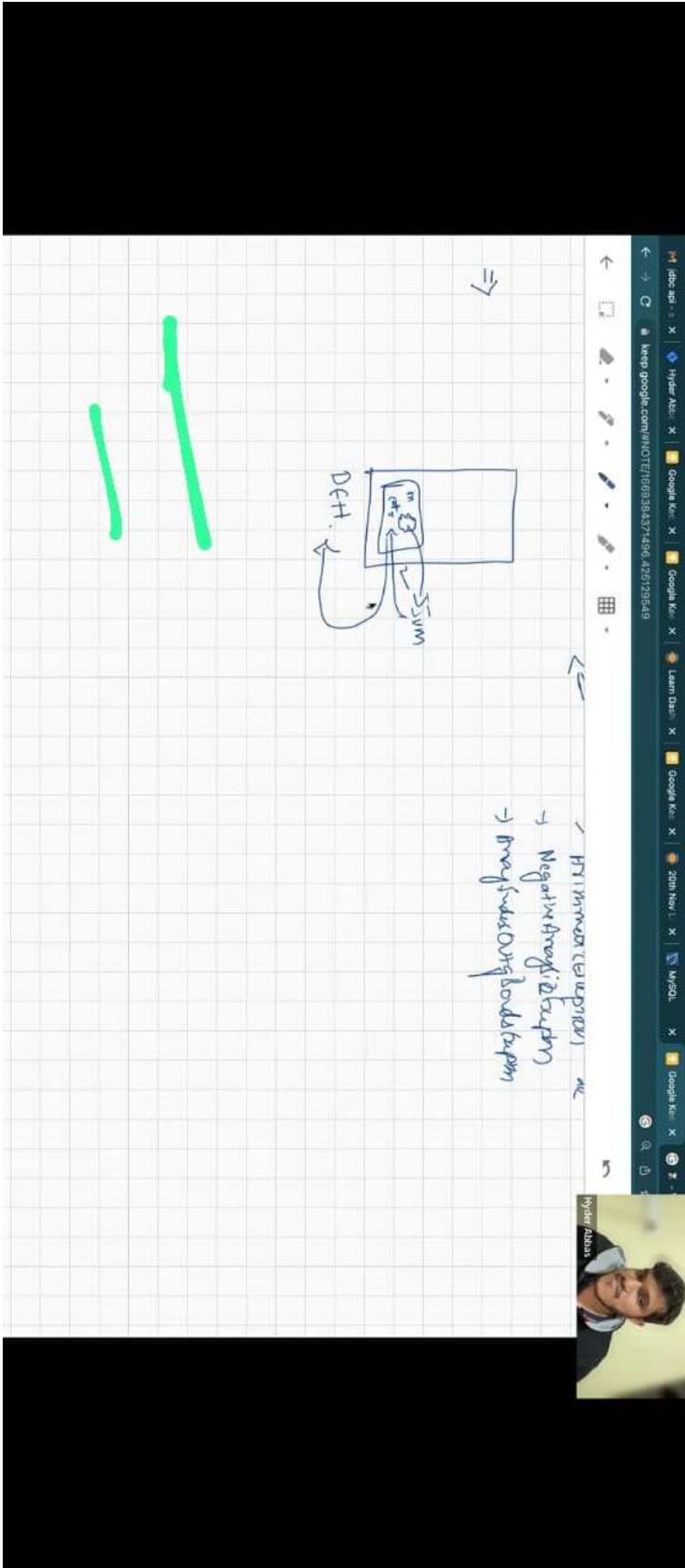


```
public static void main(String[] args)
{
    System.out.println("Connection to Calc app is
try
{
    Scanner scan=new Scanner(System.in);
    System.out.println("Enter the first num to divide");
    int num1=scan.nextInt();
    System.out.println("Enter the 2nd num to divide");
    int num2=scan.nextInt();
    int res=num1/num2;
    System.out.println("The res is "+res);
}
catch(Exception e)
{
    System.out.println("You're trying to divide by zero
System.out.println("Connection is terminated");
}
```

Writable Smart Insert 22:10:42a







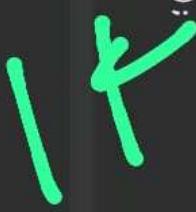
```
11:23 AM P  
17  
18     System.out.println("The res is "+ res);  
19  
20     System.out.println("Enter the size of an array");  
21     int size=scan.nextInt();  
22     int[] a=new int[size];  
23  
24     System.out.println("Enter the elem to be inserted in that array");  
25     int elem=scan.nextInt();  
26  
27     System.out.println("Enter the pos at which elem has to be inserted");  
28     int pos=scan.nextInt();  
29  
30     a[pos]=elem;  
31     System.out.println("Element "+ elem + " Inserted at "+ pos +" successfully");  
32  
33 }  
34 }  
35 catch(Exception e)  
36 {  
37     System.out.println("Wrong input please give right one");  
38 }  
39 System.out.println("Connection is terminated");  
40  
41 }  
42 }  
43 }
```



```
 25 System.out.println("Enter the elem to be inserted in that array");
 26 int elem=scan.nextInt();
 27 System.out.println("Enter the pos at which elem has to be inserted");
 28 int pos=scan.nextInt();
 29
 30 a[pos]=elem;
 31 System.out.println("Element "+ elem + " Inserted at "+ pos +" successfully");
 32
 33 }
 34 catch(ArithmeticException ae)
 35 {
 36     System.out.println("Please provide non zero denominator");
 37 }
 38 catch(NegativeArraySizeException nae)
 39 {
 40     System.out.println("Please be positive!");
 41 }
 42 catch(ArrayIndexOutOfBoundsException a)
 43 {
 44     System.out.println("Be in your limits, Don't cross it");
 45 }
 46
 47 System.out.println("Connection is terminated");
 48
 49 }
 50 }
```



```
29
30     int pos=scan.nextInt();
31
32     a[pos]=elem;
33
34     System.out.println("Element "+ elem + " Inserted at "+ pos +" successfully");
35 }
36 catch(ArithmetricException ae)
37 {
38     System.out.println("Please provide non zero denominator");
39 }
40 catch(NegativeArraySizeException nae)
41 {
42     System.out.println("Please be positive!");
43 }
44 catch(ArrayIndexOutOfBoundsException a)
45 {
46     System.out.println("Be in your limits, Don't cross it");
47 }
48 catch(Exception e)
49 {
50     System.out.println("Wrong input!");
51 }
52
53 System.out.println("Connection is terminated");
54 }
```



```
1 import java.util.Scanner;
2
3 public class LaunchExc3 {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         System.out.println("Connection to Calc app is established");
8         Scanner scan=new Scanner(System.in);
9         try {
10             int num1=scan.nextInt();
11             System.out.println("Enter the first num to divide");
12             int num2=scan.nextInt();
13             System.out.println("Enter the 2nd num to divide");
14             int num2=scan.nextInt();
15             int res=num1/num2;
16             System.out.println("The res is "+res);
17         } catch(ArithmeticException ae) {
18             System.out.println("please provide non zero denominator");
19         }
20     }
21 }
22
23
24
25
26     int[] a;
27

```

```
 30     int size=scan.nextInt();
 31     a=new int[size];
 32 }
 33 catch(NegativeArraySizeException nae)
 34 {
 35     System.out.println("Please be positive!");
 36 }
 37
 38 try
 39 {
 40     System.out.println("Enter the elem to be inserted in that array");
 41     int elem=scan.nextInt();
 42
 43     System.out.println("Enter the pos at which elem has to be inserted");
 44     int pos=scan.nextInt();
 45
 46     a[pos]=elem;
 47     System.out.println("Element "+ elem + " Inserted at "+ pos +" successfully");
 48 }
 49
 50 catch(ArrayIndexOutOfBoundsException aa)
 51 {
 52     System.out.println("Be in your limits, Don't cross it");
 53 }
 54 catch(Exception e)
```



16

```
38 System.out.println("Enter the pos at which elem has to be inserted");
39 int pos=scan.nextInt();
40
41 a[pos]=elem;
42 System.out.println("Element "+ elem + " Inserted at "+ pos +" successfully");
43
44 }
45 catch(NegativeArraySizeException nae)
46 {
47     System.out.println("be positive");
48 }
49
50 catch(ArrayIndexOutOfBoundsException aa)
51 {
52     System.out.println("Be in your limits, Don't cross it!");
53 }
54 catch(Exception e)
55 {
56     System.out.println("Wrong input!");
57 }
58
59
60 System.out.println("Connection is terminated");
61
62
63 }
```

17

```
1 import java.util.Scanner;
2
3 public class LaunchExc3 {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         System.out.println("Connection to Calc app is established");
8         Scanner scan=new Scanner(System.in);
9         try {
10
11             System.out.println("Enter the first num to divide");
12             int num1=scan.nextInt();
13             System.out.println("Enter the 2nd num to divide");
14             int num2=scan.nextInt();
15
16             int res=num1/num2;
17
18             System.out.println("The res is "+res);
19         } catch(ArithmeticException ae) {
20
21             System.out.println("please provide non zero denominator");
22         }
23     }
24
25
26
27     trv
```



Given:

```
1. public class Barn{  
2.     public static void main(String[] args) {  
3.         new Barn().go("hi", 1);  
4.         new Barn().go("hi", "world", 2);  
5.     }  
6.     public void go(String... y, int x){  
7.         System.out.print(y[y.length - 1] + " ");  
8.     }  
9. }
```

What is the result?

- A. hi hi
- B. hi world
- C. world world
- D. Compilation fails.
- E. An exception is thrown at runtime.

Answer: D

11:20:00 25.11.2022

20°C Partly cloudy

Q. Search

100% Windows (CEP)

UTF-8

Windows (CEP)

ENG

25.11.2022 22:09

N



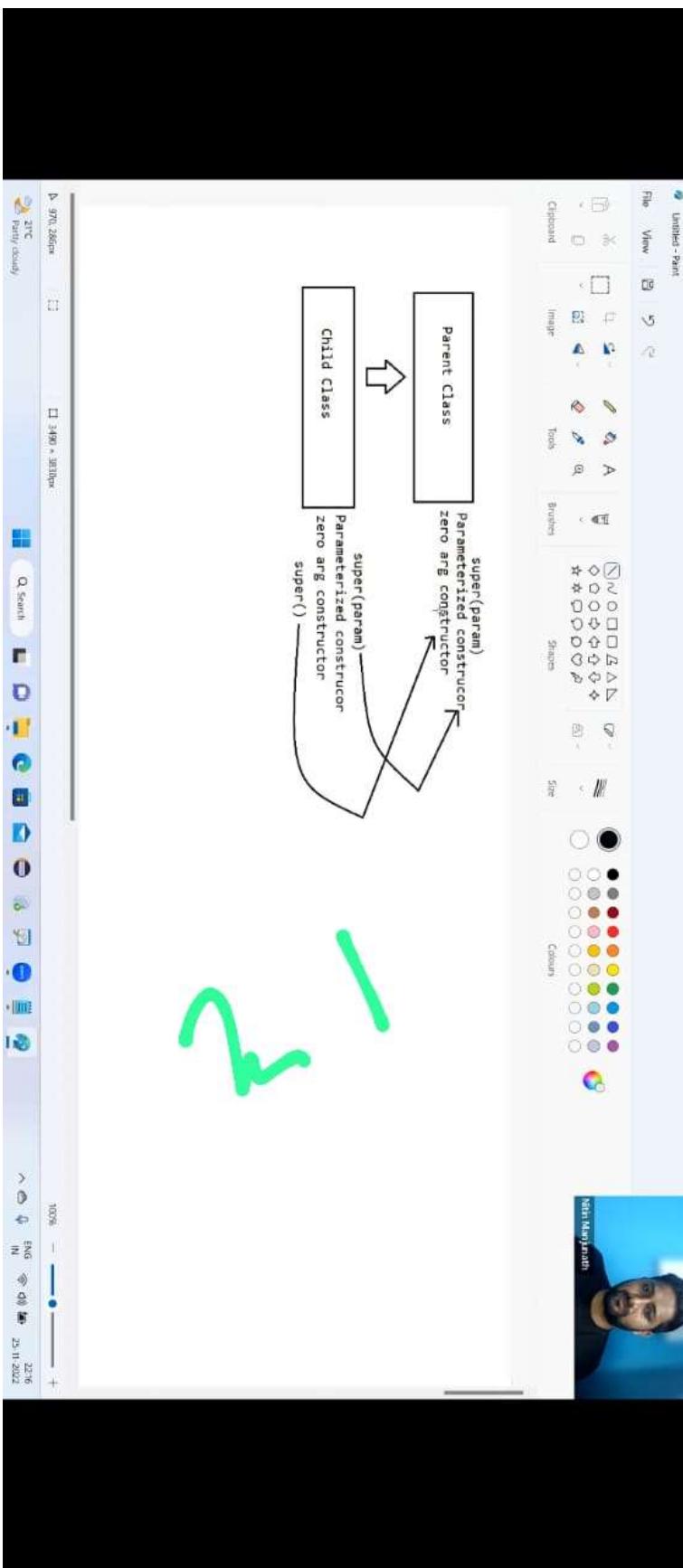
Q>

What is the result?

```
1. public class Person {  
2.     String name = "No name";  
3.     public Person(String nm) { name = nm; }  
4. }  
5.  
6. public class Employee extends Person {  
7.     String empID = "0000";  
8.     public Employee(String id) { empID = id; }  
9. }  
10.  
11. public class EmployeeTest {  
12.     public static void main(String[] args){  
13.         Employee e = new Employee("4321");  
14.         System.out.println(e.empID);  
15.     }  
16. }
```

Answer: D





```
1. public class Mud {  
2. //insert code here  
3. System.out.println("Hi");  
4. }  
5. }
```

And the following five frames:

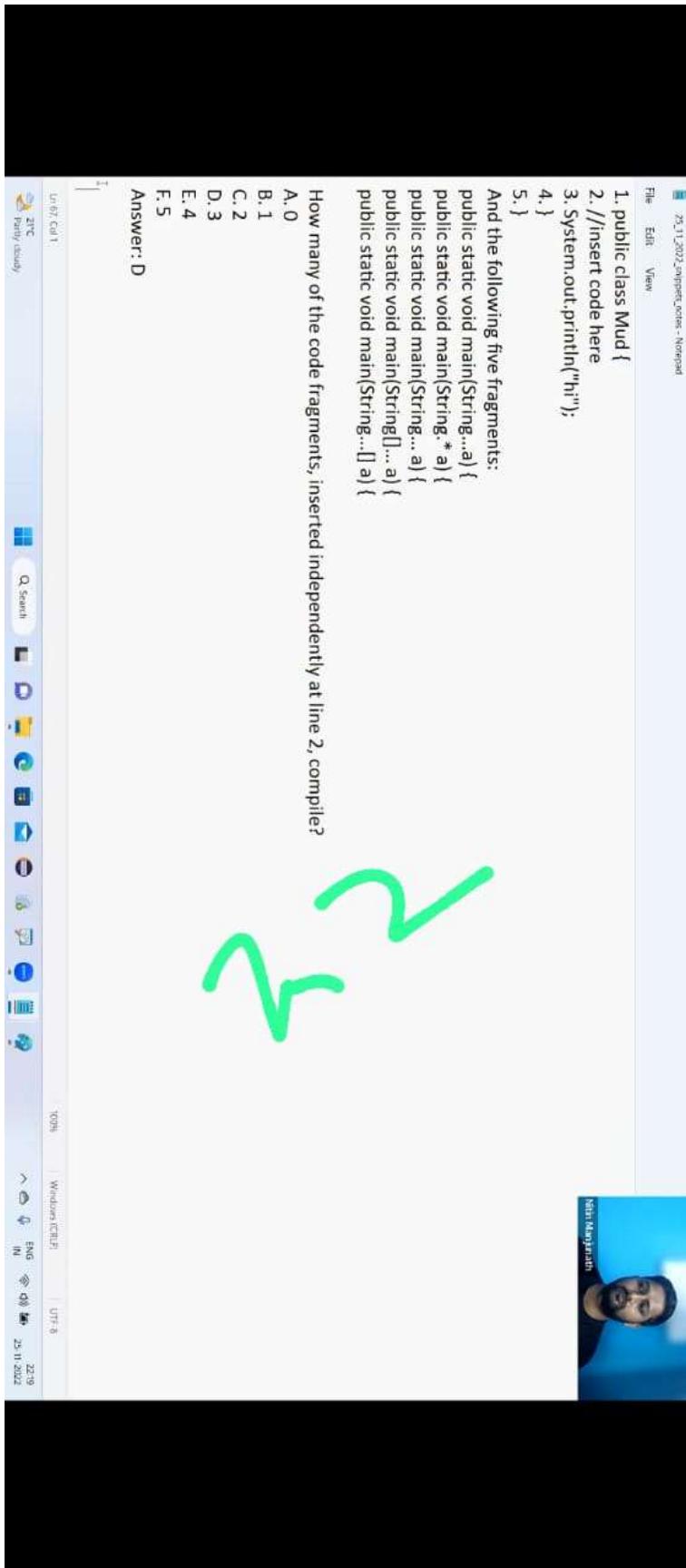
- public static void main(String[] args)
- public static void main(String s)
- public static void main(String s, String t)
- public static void main(String s, String t, String u)
- public static void main(String s, String t, String u, String v)

And the following five fragments:

How many of the code fragments, inserted independently at line 2, compile?

- A.0  
B.1

**Answer:** D



File Edit View

```
25.11.2022 snippet.notes - Notepad  
4. class Rock extends Atom {  
5.     Rock(String type) { super(); System.out.print(type); }  
6. }  
7. public class Mountain extends Rock {  
8.     Mountain(){  
9.         super("Granite");  
10.        new Rock("granite");  
11.    }  
12.    public static void main(String[] a) { new Mountain(); }  
13.}
```

What is the result?

- A. Compilation fails.
- B. atom granite
- C. granite granite
- D. atom granite granite
- E. An exception is thrown at runtime.
- F. atom granite atom granite

Answer:F(constructor chaining) atom granite atom granite



25.11.2022 (open file, no recent)

File Edit View

Question

```
interface TestA { String toString(); }

public class Test {
    public static void main(String[] args) {
        System.out.println(new TestA() { // creating an object for a class which implements TestA interface
            public String toString() { return "test"; }
        });
    }
}
```

What is the result?

- A. test
- B. null
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 1.
- E. Compilation fails because of an error in line 4.
- F. Compilation fails because of an error in line 5.

**X**

Nitin Mehta

100% Windows (CEP) UTF-8

22:50 ENG ⌂ 25.11.2022

Ln 102 Col 2

22°C Party cloudy

Q. Search

Given:

```
11. abstract class Vehicle { public int speed() { return 0; }  
12. class Car extends Vehicle { public int speed() { return 60; }  
13. class RaceCar extends Car { public int speed() { return 150; } ...  
  
21. RaceCar racer = new RaceCar();  
22. Car car = new RaceCar();  
23. Vehicle vehicle = new RaceCar();  
24. System.out.println(racer.speed() + ", " + car.speed() + ", " + vehicle.speed());
```

What is the result?

- A. 0, 0, 0
- B. 150, 60, 0
- C. Compilation fails.
- D. 150, 150, 150
- E. An exception is thrown at runtime.

Vehicle<sup>e</sup>

```
|=> int speed() => 0  
|  
|  
Car
```



25.11.2022 | open notes - Microsoft Edge  
File Edit View  
Nitin Mehta  
Uninstall  
22°C Party study  
Q. Search  
Windows (CEP7) | UTC+5  
^ ⌂ ⌂ ENG ⇧ ⇩ ⌂ 23.11.2022

File Edit View  
25.11.2022\_snippet\_notes - Notepad

E. An exception is thrown at runtime.

```
Vehicle
|=> int speed() => 0
|
Car
|=> int speed() => 60
|
RaceCar (object)
|=> int speed() => 150
```

Answer: D(becoz of overriding jvm will use the runtime object)150,150,150

4

Ln 121 Col 75      70%      Windows (CEP)      UTF-8  
22°C      Partly cloudy      Q. Search      ↺      ENG ⇄ DE ↴  
IN      25.11.2022

25.11.2022 (openNotes - Microsoft Word)

File Edit View

Question

```
5. class Building {}  
6. public class Barn extends Building {}  
7. public static void main(String[] args) {  
8.     Building build1 = new Building();  
9.     Barn barn1 = new Barn();  
10.    Barn barn2 = (Barn) build1;  
11.    Object obj1 = (Object) build1;  
12.    String str1 = (String) build1;  
13.    Building build2 = (Building) barn1;  
14.}  
15.}
```

Which is true?

- A. If line 10 is removed, the compilation succeeds.
- B. If line 11 is removed, the compilation succeeds.
- C. If line 12 is removed, the compilation succeeds.
- D. If line 13 is removed, the compilation succeeds.
- E. More than one line must be removed for compilation to succeed.

22°C Party cloudy

115. Col 1

Q. Search

TOP Windows (CEP7) UTC-8 ENG ⌂ IN 25.11.2022



25.11.2022 c:\open\names-Norman

File Edit View

```
Object obj1 = (Object) build1;
String str1 = (String) build1; //RE: ClassCastException
Building build2 = (Building) barn1;
}
}

Which is true?
A. If line 10 is removed, the compilation succeeds.
B. If line 11 is removed, the compilation succeeds.
C. If line 12 is removed, the compilation succeeds.
D. If line 13 is removed, the compilation succeeds.
E. More than one line must be removed for compilation to succeed.
```

Object =====> obj1  
|  
Building===== >build1  
|  
Barn=====> barn1

Answer: C

Nitin Manjrekar

100% Windows (CEP7) UTF-8

~ ⌂ ⌄ ENG ⌂ CHS ⌂ 25.11.2022

```
-23\Java\src\com\pcc\ - Notepad  
File Edit View  
22. private String country = "Canada";  
23. public String getC() { return country; }  
24.  
25. class Yen extends Money {  
26.     public String getC() { return super.country; }  
27. }  
28. public class Euro extends Money {  
29.     public String getC(int x) { return super.getC(); }  
30.     public static void main(String[] args) {  
31.         System.out.print(new Yen().getC() + " " + new Euro().getC());  
32.     }  
33. }
```

~9

What is the result?

- A. Canada
- B. null/Canada
- C. Canada null
- D. Canada Canada
- E. Compilation fails due to an error on line 26.
- F. Compilation fails due to an error on line 29.

Answer: E

174.20.10.10 22°C, Partly cloudy



T0M Windows (CEP)

UTC-8

ENG

IN

23.11.2022

```
25.11.2022 (open, name: filetest)  
File Edit View  
1. public class Boxer1{  
2.     Integer i;  
3.     int x;  
4.     public Boxer1(int y){  
5.         x = i*y;  
6.         System.out.println(x);  
7.     }  
8.     public static void main(String[] args){  
9.         new Boxer1(new Integer(4));  
10.    }  
11.}
```

What is the result?

- A. The value "4" is printed at the command line.
- B. Compilation fails because of an error in line 5.
- C. Compilation fails because of an error in line 9.
- D. A NullPointerException occurs at runtime.
- E. A NumberFormatException occurs at runtime.
- F. An IllegalStateException occurs at runtime.

```
Y = 4  
x = null + 4(jvm do operation on null => NullPointerException)
```

30

22°C  
Fully cloudy



100% Windows (CET) UTC+0

ENG DE IN 25.11.2022

