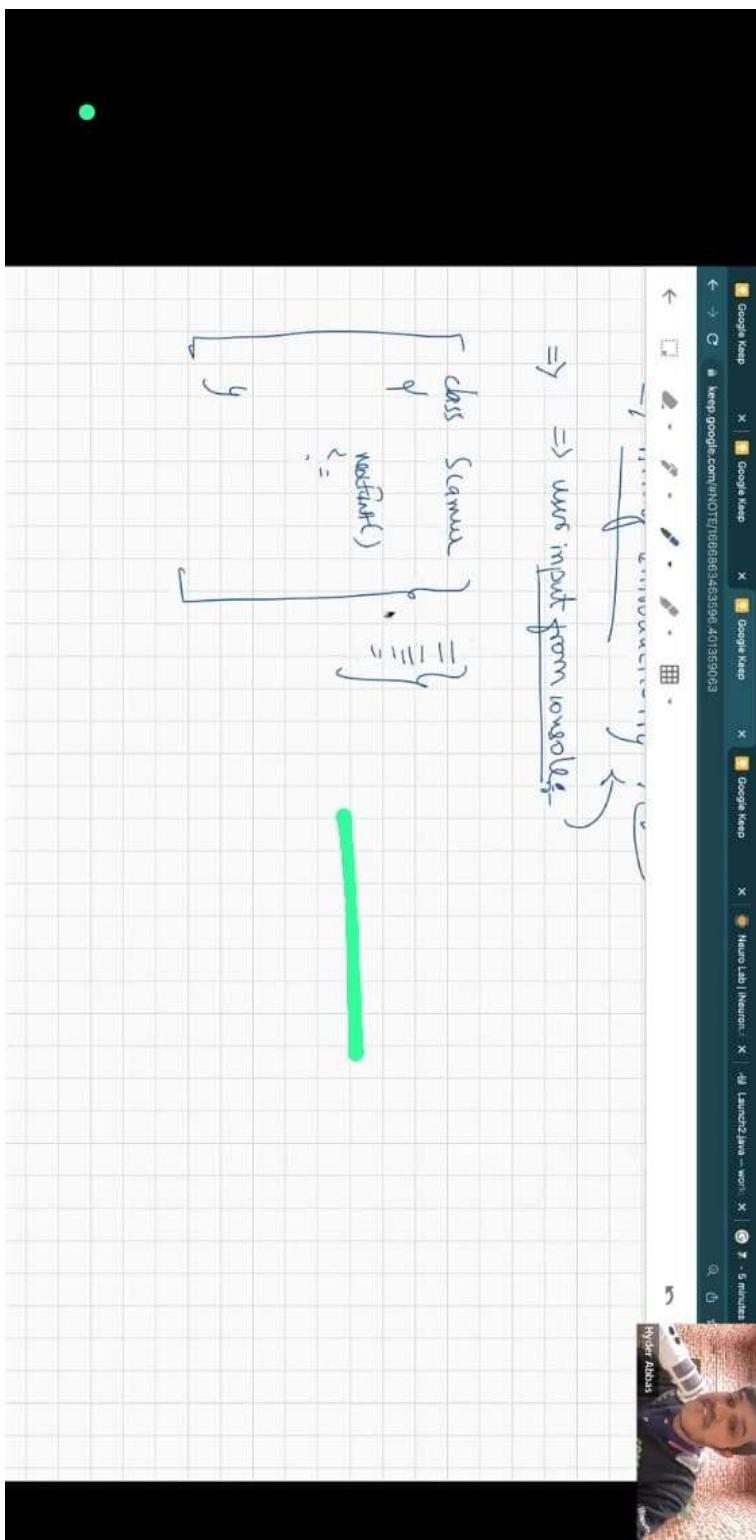


11Array_In_Java_Part2



```
1 Z.ZI PAW 000
2
3
4
5 public static void main(String[] args)
6 {
7     // To store and display marks of 5 students
8     int[] ar=new int[5]; 10=5
9
10
11 Scanner scan=new Scanner(System.in);
12
13
14 for(int i=0; i<5;i++)
15 {
16     System.out.println("Please Enter marks of student "+ i);
17     ar[i]=scan.nextInt();
18 }
19
20 System.out.println("The marks of students are as follows");
21
22 for(int i=0;i<5;i++)
23 {
24     System.out.print(ar[i]+ " ");
25 }
26
27
28
29 }
```

2

```
4
5
6* public static void main(String[] args)
7
8 // To store and display marks of 5 students
9 Scanner scan=new Scanner(System.in);
10
11 System.out.println("Please enter the size of array");
12 int size=scan.nextInt();
13
14 int[] ar=new int[size];
15
16
17
18 for(int i=0; i<ar.length;i++)
19 {
20     System.out.println("Please Enter marks of student "+ i);
21     ar[i]=scan.nextInt();
22 }
23
24 System.out.println("The marks of students are as follows");
25
26 for(int i=0;i<ar.length;i++)
27 {
28     System.out.print(ar[i]+ " ");
29 }
```



```
1 import java.util.*;
2
3 public class Launch3
4 {
5     public static void main(String[] args)
6     {
7         Scanner scan=new Scanner(System.in);
8
9         int [][] ar=new int[3][4];//array declaration } ←
10
11         { for(int i=0; i<ar.length;i++) } →i
12             { for(int j=0; j<ar[i].length;j++) } →j
13                 {
14                     System.out.println("Enter marks of class "+i+" Student "+j);
15                     ar[i][j]=scan.nextInt();
16                 }
17             }
18         }
19     }
20 }
```

4



```
8
9
10 public static void main(String[] args)
11 {
12     Scanner scan=new Scanner(System.in);
13     int [][] ar=new int[3][4];//array declaration
14     for(int i=0; i<ar.length;i++)
15     {
16         for(int j=0; j<ar[i].length;j++)
17         {
18             System.out.println("Enter marks of class "+i+" Student "+j);
19             ar[i][j]=scan.nextInt();
20         }
21     }
22 }
23 System.out.println("The marks of Students are");
24 for(int i=0; i<ar.length;i++)
25 {
26     for(int j=0; j<ar[i].length;j++)
27     {
28         System.out.print(ar[i][j] + " ");
29     }
30     System.out.println();
31 }
32
33 }
```

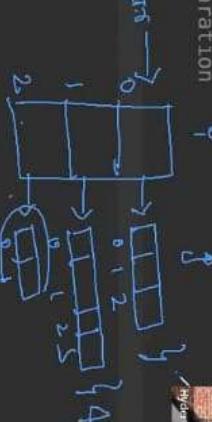
25

```
8
9
10 public static void main(String[] args)
11 {
12     Scanner scan=new Scanner(System.in);
13     int [][] ar=new int[3][4]; //array declaration
14     for(int i=0; i<ar.length; i++)
15     {
16         for(int j=0; j<ar[i].length; j++)
17         {
18             System.out.println("Enter marks of class "+i+" Student "+j);
19             ar[i][j]=scan.nextInt();
20         }
21     }
22 }
23 System.out.println("The marks of Students are");
24 for(int i=0; i<ar.length; i++)
25 {
26     for(int j=0; j<ar[i].length; j++)
27     {
28         System.out.print(ar[i][j] + " ");
29     }
30     System.out.println();
31 }
32
33 }
```

6

```
8
9     int [][] ar=new int[3][];//array declaration
10    ar[0]=new int[3];
11    ar[1]=new int[4];
12    ar[2]=new int[2];
13
14    for(int i=0; i<ar.length;i++)
15    {
16        for(int j=0; j<ar[i].length;j++)
17        {
18            System.out.println("Enter marks of class "+i+" student "+j);
19            ar[i][j]=scan.nextInt();
20        }
21    }
22
23    System.out.println("The marks of Students are");
24    for(int i=0; i<ar.length;i++)
25    {
26        for(int j=0; j<ar[i].length;j++)
27        {
28            System.out.print(ar[i][j] + " ");
29        }
30    }
31    System.out.println();
32
33 }
```

7



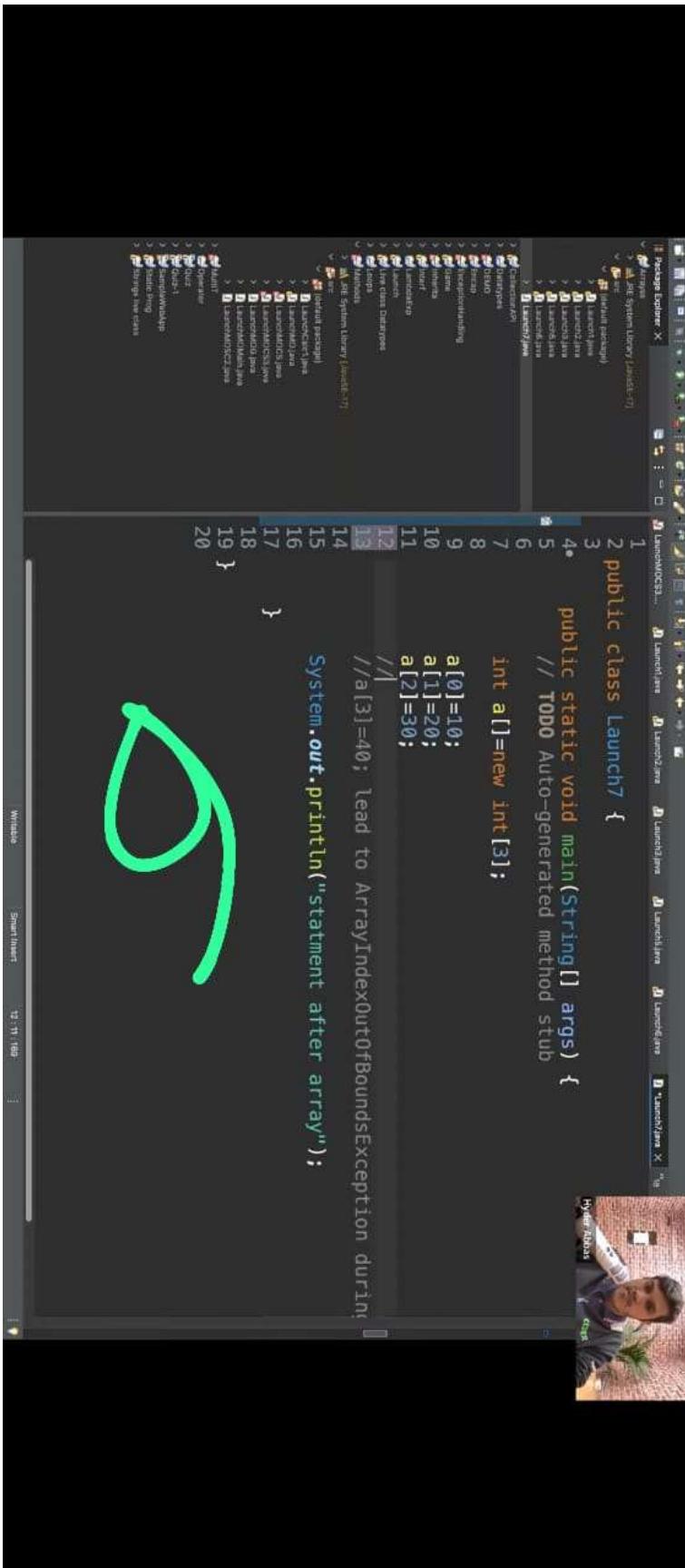
```
1 import java.util.Scanner;
2
3 public class Launch6 {
4     public static void main(String[] args) {
5         Scanner scan=new Scanner(System.in);
6         int [][] hyder=new int[2][3][3];
7         for(int i=0;i<hyder.length;i++)
8         {
9             for(int j=0; j<hyder[i].length;j++)
10            {
11                for(int k=0; k<hyder[i][j].length;k++)
12                {
13                    System.out.println("Enter marks of College "+ i+ " Class "+ j + " Subject "+ k);
14                    hyder[i][j][k]=scan.nextInt();
15                }
16            }
17        }
18    }
19 }
20
21
22
23
24
25
26
```

Diagram illustrating the memory layout of the 3D array `hyder`:

- The array `hyder` is a 3D array of size $2 \times 3 \times 3$.
- It is represented as a 2D grid of 3 columns, where each column contains 3 rows.
- The first dimension (rows) is labeled `i` with value 0.
- The second dimension (columns) is labeled `j` with value 0.
- The third dimension (rows) is labeled `k` with value 0.
- Each cell in the grid contains a value, representing the mark entered by the user.

Handwritten notes:

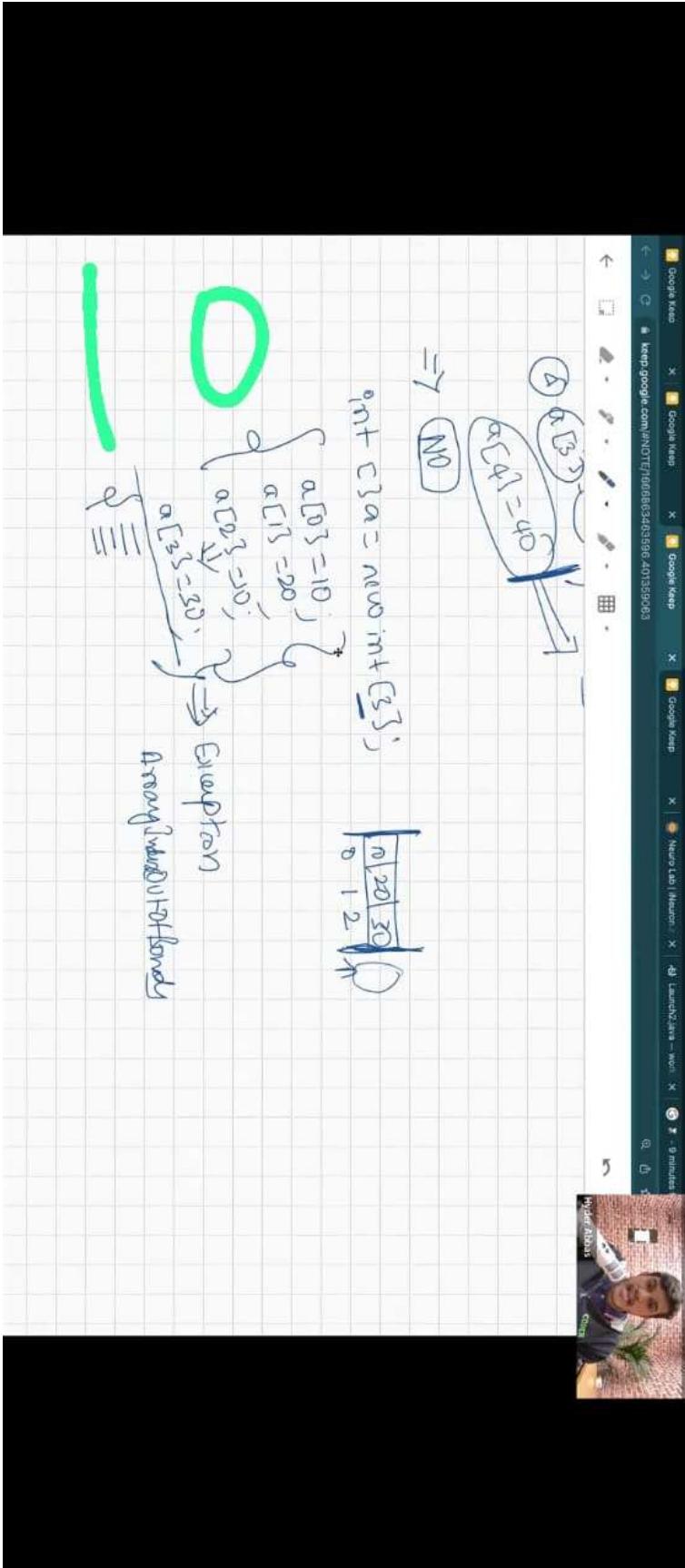
- `hyder[i][j][k]` is highlighted in red.
- `hyder[i][j]` is highlighted in blue.
- `hyder[i]` is highlighted in green.
- `hyder` is highlighted in orange.
- `System.out.println("Enter marks of College "+ i+ " Class "+ j + " Subject "+ k);` is highlighted in blue.
- `hyder[i][j][k]=scan.nextInt();` is highlighted in green.
- `hyder[i][j][k]` is circled in red.
- `0 < i < 2` is written below the grid.
- `0 < j < 3` is written to the right of the grid.
- `0 < k < 3` is written below the grid.
- A large green infinity symbol is drawn on the left side of the code editor.
- A handwritten signature is at the bottom right.

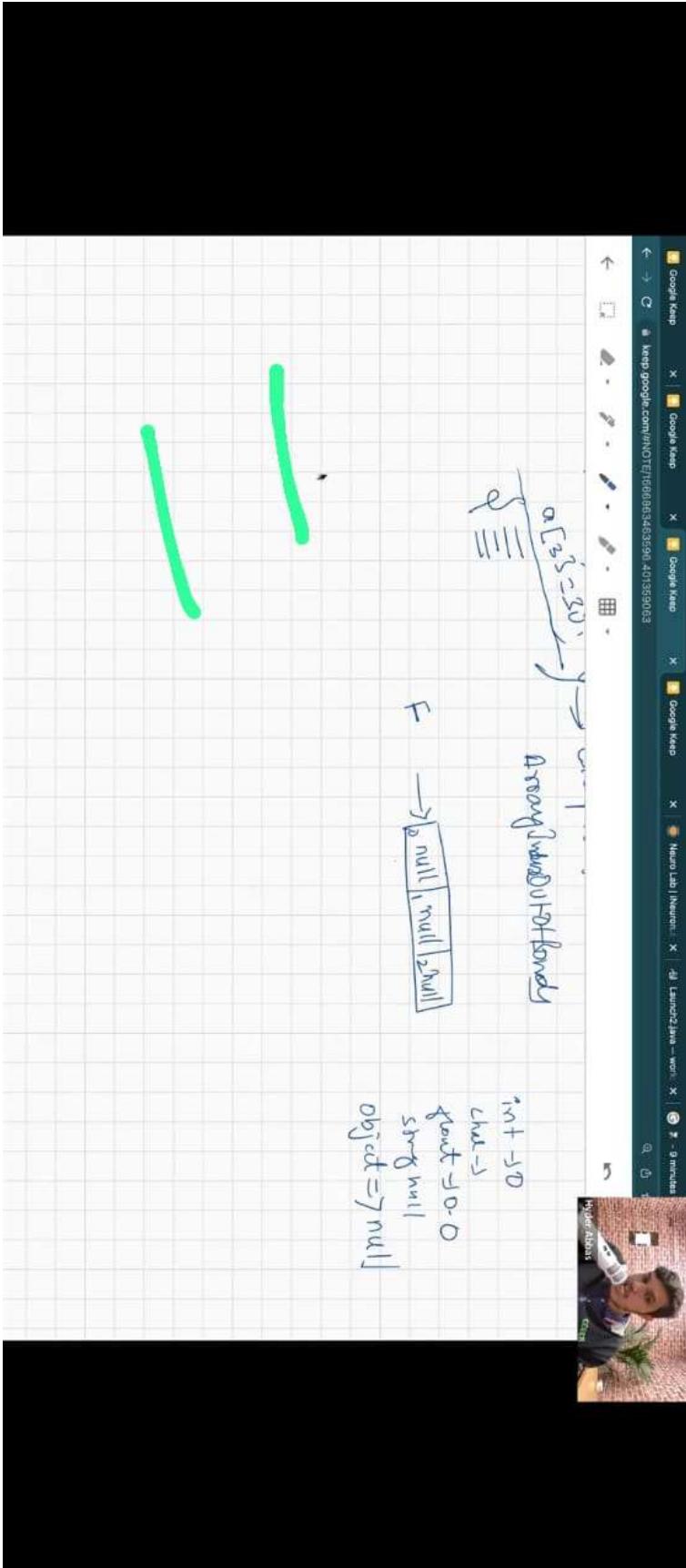


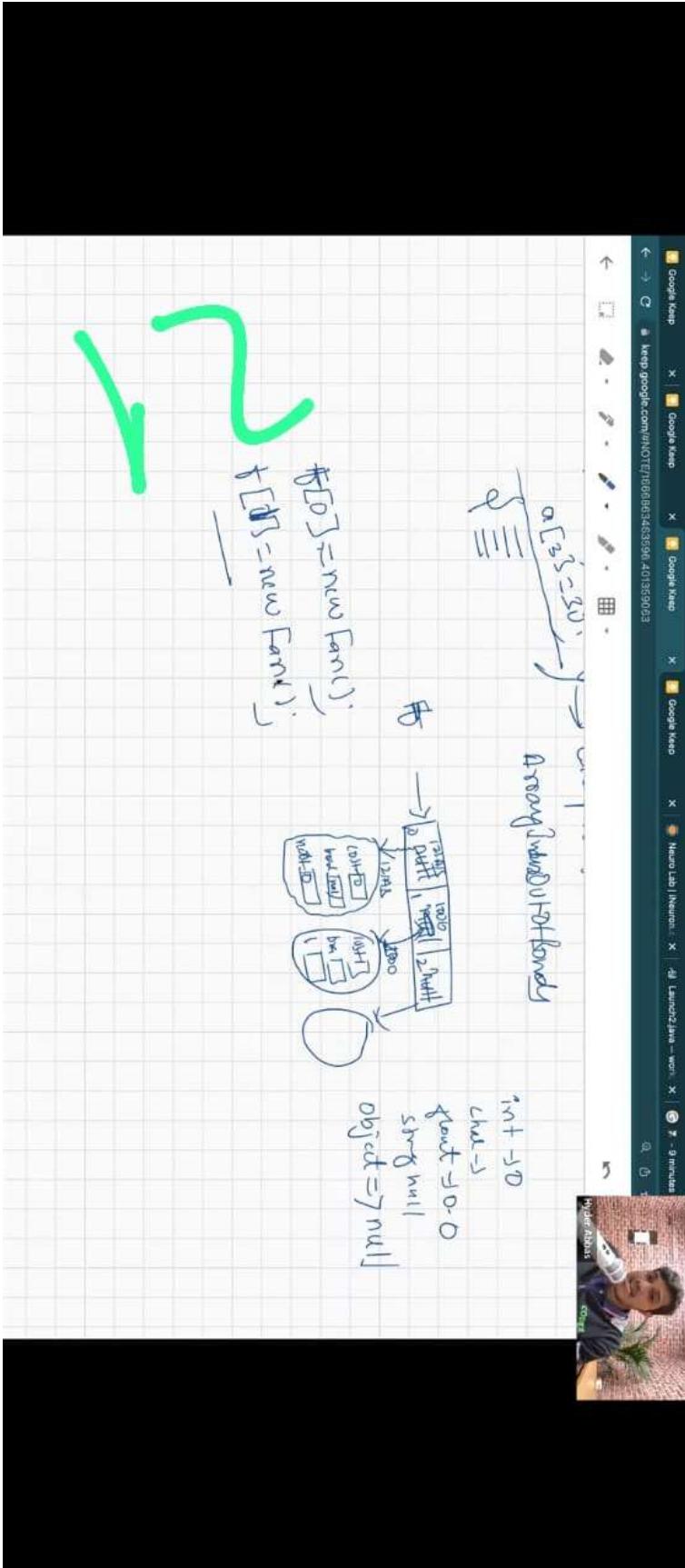
A screenshot of a Java IDE interface, likely Eclipse or IntelliJ IDEA, showing a code editor with a green hand-drawn mark. The code in the editor is as follows:

```
1 package com.example;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 public class Launch7 {
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         int a []=new int[3];
10        a [0]=10;
11        a [1]=20;
12        a [2]=30;
13        //a [3]=40; lead to ArrayIndexOutOfBoundsException during
14        System.out.println("statement after array");
15    }
16}
17
18
19
20}
```

The green mark is a large, stylized letter 'G' drawn over the code editor area.







```
1 package Explorer X;
2
3 import java.util.ArrayList;
4
5 public class Fan {
6     int cost;
7     String brand;
8     int noOfWings;
9 }
10
11 public class Launch {
12
13     public static void main(String[] args) {
14
15         Fan[] f = new Fan[3];
16
17         f[0] = new Fan();
18         f[1] = new Fan();
19         f[2] = new Fan();
20
21         f[0].cost = 1000;
22         f[0].brand = "Hyder";
23
24     }
25
26 }
27
```

14

\Rightarrow

Disadvantages

\Rightarrow It can store only homogenous type data.

$\text{int } a[3] = \text{new int}[4];$

$\boxed{\text{int}}$
only integer values.

$a[0] = 10;$ ✓
 $a[1] = 10.5$ ✗
 $a[2] = "Hello"$ ✗



The screenshot shows a Java code editor within an IDE. The code is a simple program that creates three objects of the `Fan` class and prints their details. A green highlight is drawn over the line containing the declaration of the `Fan` array at line 13.

```
1 package com.lms;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 public class Launch {
7     public static void main(String[] args) {
8         Fan[] f = new Fan[3];
9         f[0]=new Fan();
10        f[1]=new Fan();
11        f[2]=new Fan();
12        f[0].brand="Hyder";
13        f[0].cost=10000;
14    }
15 }
```

The screenshot shows a Java code editor with several annotations:

- A large green circle highlights the word "Launch10" in the class name.
- A green arrow points from the bottom left towards the class name.
- An annotation "Hyde Alias" is placed over a line of code.
- The status bar at the bottom displays: "Wrinkle" and "Smart hint" on the left, and "10 : 33 [24]" on the right.

```
1 package Engine.X;
2
3 import java.awt.image.BufferedImage;
4 import javax.swing.JFrame;
5 import javax.swing.JPanel;
6 import javax.swing.JTabbedPane;
7 import javax.swing.JTextPane;
8 import javax.swing.WindowConstants;
9
10 public class Launch10 {
11     public static void main(String[] args) {
12         // TODO Auto-generated method stub
13
14         int [] a1=new int[] {10,20};
15
16         char [] c= {'i','N','B','I'};
17
18         int[][] ar= new int[][]{{10,20},{20,30}};
19
20         int[] ar1= {{10,20},{20,30}};
21
22     }
23
24 }
25
26 }
```

The status bar also contains the message: "The value of the local variable 'a' is not used".

```
1 package com.learncode;
2
3 import java.util.Scanner;
4
5 public class Launch1 {
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9         int a [] = {10,20,30,40};
10        for(int elem:a) {
11            System.out.println(elem);
12        }
13    }
14 }
15
16
17
18
19
20 }
```

Annotations:

- A large green arrow points from the left margin towards the opening brace of the for-loop at line 10.
- A blue circle surrounds the word "for" in the for-loop declaration at line 10.
- A handwritten note "start -> end" is written next to the blue circle.
- A handwritten note "0 -> [10 20 30 40]" is written below the array declaration at line 9.

```
28.10.2022_2019pc_classrooms - Notepad  
File Edit View  
Q>  
public class ExampleDoWhile{  
    public static void main(String args[]){  
        do{  
            System.out.println("hello"); //line-n1  
        }while(true);  
        System.out.println("hi");//line-n2  
    }  
}  
A. CompileTime Error at line-n1  
B. hello infinite times  
C. hi  
D. some problem by jvm during the execution  
E. CompileTime Error at line-n2  
F. None of the above
```

Answer: E

18



Un 19 Col 1
20°C
Light rain



100% Windows (CEP) UTF-8

EN IN 28.10.2022

Note:

```
I1:  
for()  
{  
    I2: for()  
    {  
        I3: for()  
        {  
  
            break;/break I3; // goto stmt-1  
            break I2; //goto stmt2  
            break I1;// goto stmt3  
        }  
        stmt-1;  
    }  
    stmt-2;  
}  
stmt-3;
```

18

20°C
mostly clear



Un 192.168.1.7

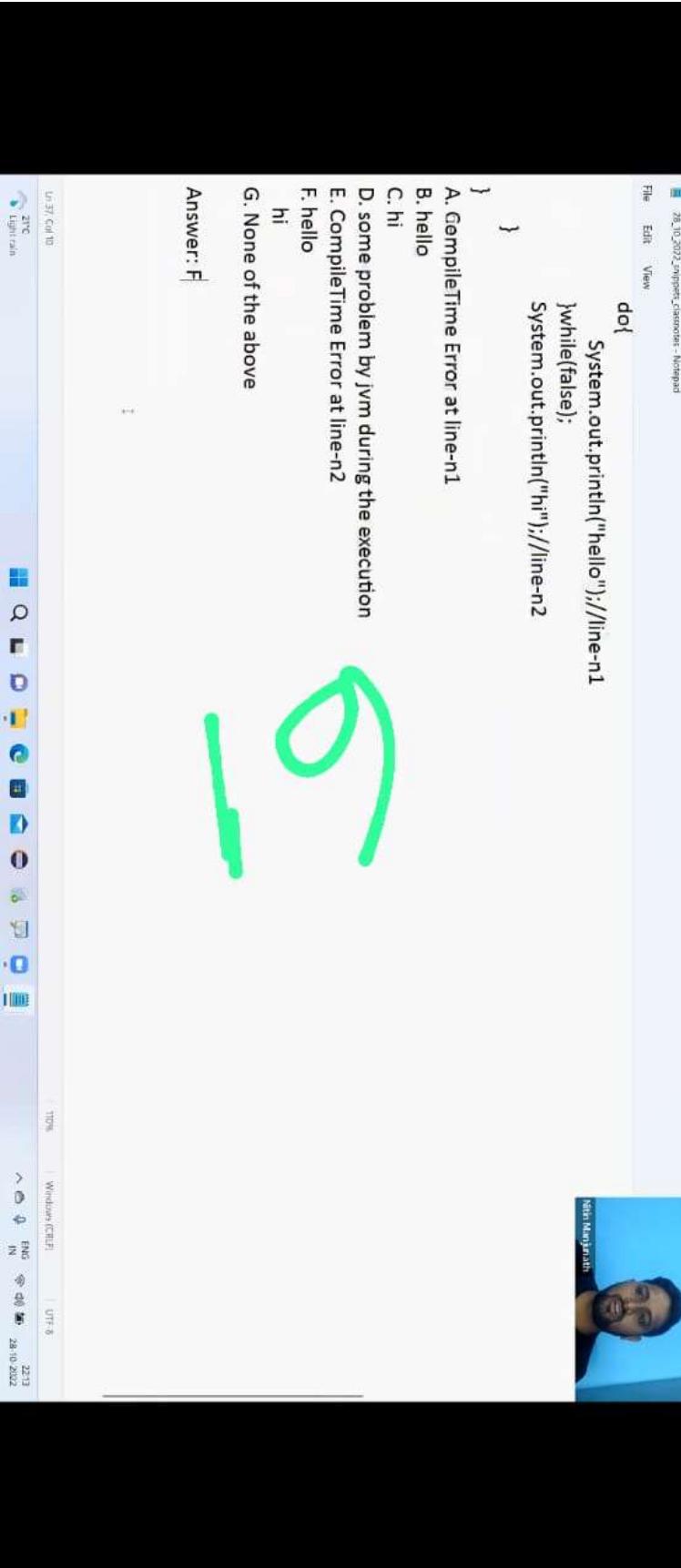
20°C

Windows (CEP)

UTF-8

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26.10.2022 snippets-classmate - Notepad

File Edit View

```
do{  
    System.out.println("hello");//line-n1  
}  
}while(false);  
System.out.println("hi");//line-n2
```

A. CompileTime Error at line-n1
B. hello
C. hi
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello
hi
G. None of the above

Answer: F

— 6 —

```
28.10.2022_2019ppc-classrooms - Notepad  
File Edit View  
public class ExampleDoWhile{  
    public static void main(String args[]){  
        int a=10,b=20;  
        do{  
            System.out.println("hello");//line-n1  
            } while(a<b);// JVM ---> while(10<20) ---> while(true)  
        System.out.println("hi");//line-n2  
    }  
}  
A. CompileTime Error at line-n1  
B. hello  
C. hi  
D. some problem by jvm during the execution  
E. CompileTime Error at line-n2  
F. hello infinite times  
g. hi infinite times  
h. None of the above
```

Answer: F

20°C
Light rain



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T



File Edit View

```
do{  
    System.out.println("hello");//line-n1  
} while(a>b);//JVM --> while(10>20) --> while(false)  
System.out.println("hi");//line-n2  
}  
  
A. CompileTime Error at line-n1  
B. hello  
    hi  
C. hi  
    hello  
D. some problem by jvm during the execution  
E. CompileTime Error at line-n2  
F. hello infinite times  
    hi  
G. None of the above
```

Answer: B



File Edit View

98_10_2017_chapter_discusses_Nicolepad

```
final int a=10,b=20;
do{
    System.out.println("hello");//line-n1
} while(a<b);//Compiler----> while(10<20) ---> while(true)
System.out.println("hi");//line-n2
}
```

A. CompileTime Error at line-n1
B. hello
C. hi
hello
D. some problem by jvm during the execution
E. CompileTime Error at line-n2
F. hello infinite times
hi
G. None of the above

Answer: E(concept of unreachable)

Nitin Ranganath

Answer: E(concept of unreachable)

- A. Compile time error at line-n1
 - B. hello
 hi
 - C. hi
 hello
 - D. some problem by jvm during the execution
 - E. Compile Time Error at line-n2
 - F. hello infinite times
 hi
 - G. None of the above

22

```
28.10.2022 (empty character: Nmapack)  
File Edit View  
  
final int a=10,b=20;  
do{  
    System.out.println("hello");//line-n1  
} while(a>b);//Compiler ----> while(10>20) ----> while(false)  
System.out.println("hi");//line-n2  
}  
  
A. CompileTime Error at line-n1  
B. hello  
hi  
C. hi  
hello  
D. some problem by jvm during the execution  
E. CompileTime Error at line-n2  
F. hello infinite times  
hi  
G. None of the above
```

Answer: B

20°C
Light rain



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UTF-8
EN IN 28.10.2022



28.10.2022_201ppc_classrooms - NotePad

File Edit View

Nitin Manjprath

Q>

```
int i=0,j=0; //line -n1
int i=0,Boolean b=true; //line-n2
int i=0,int j=0; //line -n3
```

How many statements are valid?

- A. line -n1 and line -n3
- B. line -n2
- C. line-n1, line-n2 and line-n3
- D.line -n3
- E. line -n1

Answer: E(after , in declaration we need to just specify the variables only)

100% Windows (CEP) UTF-8
Nitin Manjprath
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201ppc
Light Rain 20°C

28.10.2022_2019ppc_classnotes - Notepad

File Edit View

```
public static void main(String args[]){
    int i=0;
    for(System.out.println("hello u r sleeping");i<3;i++){
        System.out.println("no boss, u only sleeping");
    }
}
```

Predict the Output:

- A. Compile Time Error
- B. Some problem occurred by jvm during execution
- C. hello u r sleeping
- D. no boss, u only sleeping
- E.

hello u r sleeping
No boss, u only sleeping
No boss, u only sleeping
No boss, u only sleeping

Answer: E

Un TTY Gui10 10% Windows (CEP) 28.10.2022 22:27

20°C Light rain

Q D E F G H I J K L M N P S T C V Z X C V B N M

Nitin Manjrekar

28.10.2022 - ExampleFor - Notepad

File Edit View

```
public class ExampleFor{  
    public static void main(String args[]){  
        int i=0;  
        for(System.out.println("hello");i<3;System.out.println("hi")){  
            i++;  
        }  
    }  
}
```

Predict the Output:

A.Compile Time Error
B. Some problem occurred by jvm during execution
C. hello
 hi
D.hello
 hi
 hi
E. hi
 hi
 hi

16

100% Windows (CEP) UTF-8

28.10.2022 22:29

EN IN

Light Rain 20°C

```
File Edit View  
E. line -n1  
  
Nitin Mangrulkar
```

Answer: E(after , in declaration we need to just specify the variables only)

Q>

Syntax:

```
for(stmt1;stmt2;stmt3){  
    stmt4;
```

stmt1-> can be any statement, but suggested for initialisation

stmt2 -> compulsorily should be boolean statement only

stmt3 -> can be any statement, **but suggested for inc/dec on a variable**

stmt4 -> can be any statement,suggested for repetitive logic

```
public class ExampleFor{
```

```
    public static void main(String args[]){
```

```
        int i=0;
```

```
        for(System.out.println("hello u r sleeping");i<3;i++){
```

```
            System.out.println("no boss, u only sleeping");
```

```
}
```

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27

```
public class ExampleFor{  
    public static void main(String args[]){  
        for();//Compiler-->boolean value will be evaluated as 'true'  
        System.out.println("hello");  
    }  
}
```

Predict the Output:

A.Compile Time Error

B. Some problem occurred by jvm during execution

C. hello

Infinita timer halla

D. Infinite times hello

Answer: D

28

En 217, Col 1

110% Windows (DEU) UTF-8

```
28.10.2022 (empty character) - NetBeans  
File Edit View  
Q>  
public class ExampleFor{  
    public static void main(String args[]){  
        for(int i=0;true;i++){  
            System.out.println("hello");//line-n1  
        }  
        System.out.println("hi");//line-n2  
    }  
}  
Predict the Output:  
A.Compile Time Error at line-n1  
B.Compile Time Error at line-n2  
C.Some problem occurred by JVM during execution  
D.hello  
    hi  
D. infinite times hello followed by hi  
E. None of the above
```

Answer: B

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

29



28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

28.10.2022 (empty character) - NetBeans
File Edit View
Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

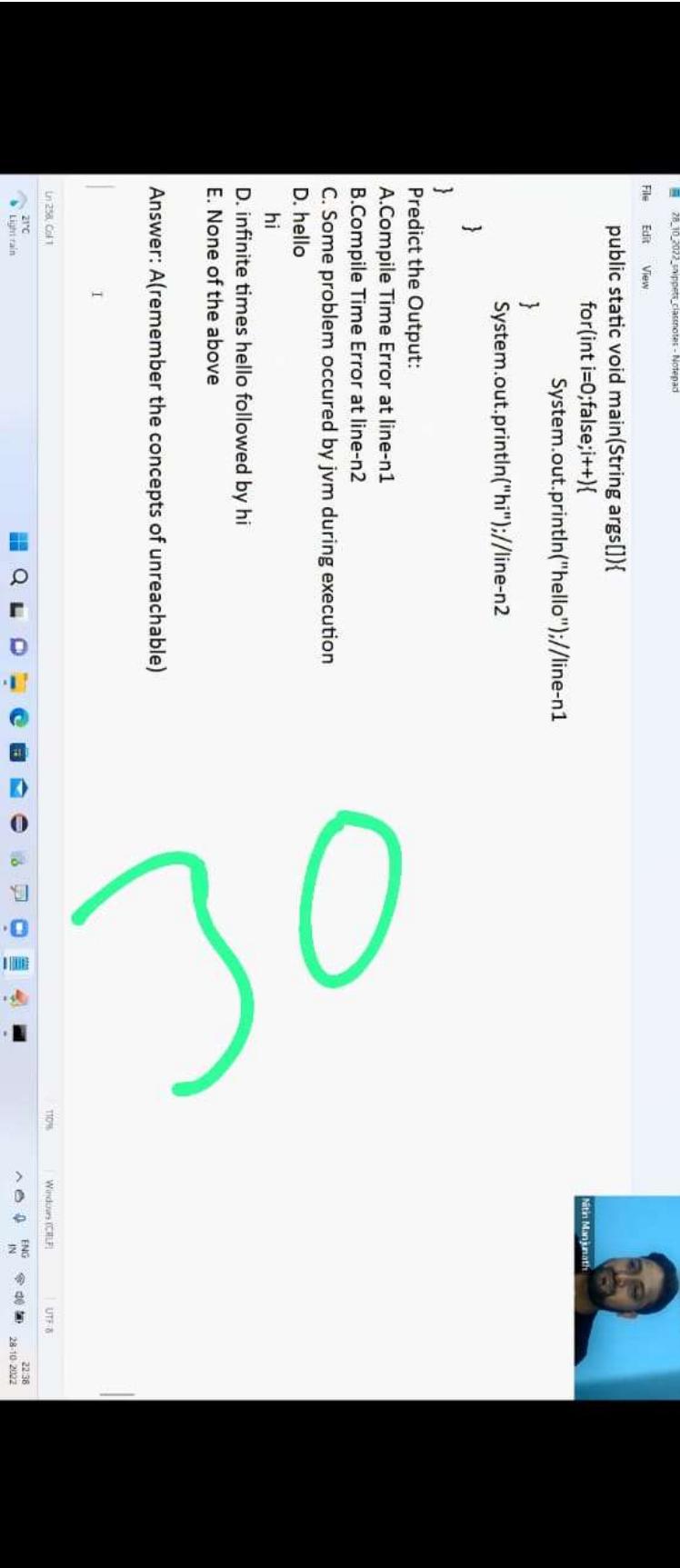
28.10.2022 (empty character) - NetBeans
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Q>
public class ExampleFor{
 public static void main(String args[]){
 for(int i=0;true;i++){
 System.out.println("hello");//line-n1
 }
 System.out.println("hi");//line-n2
 }
}
Predict the Output:
A.Compile Time Error at line-n1
B.Compile Time Error at line-n2
C.Some problem occurred by JVM during execution
D.hello
 hi
D. infinite times hello followed by hi
E. None of the above

```
28.10.2022_201ppmc_classnotes - Notepad  
File Edit View  
  
public static void main(String args[]){  
    for(int i=0;false;i++){  
        System.out.println("hello");//line-n1  
    }  
    System.out.println("hi");//line-n2  
}  
  
Predict the Output:  
A.Compile Time Error at line-n1  
B.Compile Time Error at line-n2  
C.Some problem occurred by JVM during execution  
D.hello  
    hi  
E.infinite times hello followed by hi  
F.infinite times hi followed by hello  
G.hello followed by hi  
H.hi followed by hello  
I.None of the above
```

Answer: A(remember the concepts of unreachable)

Handwritten notes:

- 3
- 0





```
26.10.2022_2ndipmc_classes08 - Notepad  
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public static void main(String args[]){  
    for(int i=0;i++){  
        System.out.println("hello");//line-n1  
    }  
    System.out.println("hi");//line-n2  
}  
  
Predict the Output:  
A.Compile Time Error at line-n1  
B.Compile Time Error at line-n2  
C.Some problem occurred by jvm during execution  
D.hello  
    hi  
E.infinite times hello  
F.None of the above
```

Answer : B

28.10.2022_201ppmc_chapter05 - Notepad

File Edit View

```
int a=10,b=20;
for(int i=0;a<b;i++){//VM ----> 10<20 ( true)
    System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
```

}

Predict the Output:

- A.Compile Time Error at line-n1
- B.Compile Time Error at line-n2
- C.Some problem occurred by jvm during execution
- D.hello
- hi
- D.infinite times hello
- E. None of the above

Answer: D

28.10.2022_201ppmc_chapter05 - Notepad

File Edit View

```
int a=10,b=20;
for(int i=0;a<b;i++){//VM ----> 10<20 ( true)
    System.out.println("hello");//line-n1
}
System.out.println("hi");//line-n2
```

}

Nitin Mehta

10% Windows-CE(UTF-8) UTF-8

28.10.2022 22:42

20°C Light rain

File Edit View

28.10.2022_2019PCC_classteach - Notepad

```
public static void main(String args[]){
    final int a=10,b=20;
    for(int i=0;a<b;i++){//Compiler ---> 10<20(true)
        System.out.println("hello");//line-n1
    }
    System.out.println("hi");//line-n2
}
```

Predict the Output:

- A.Compile Time Error at line-n1
- B.Compile Time Error at line-n2
- C.Some problem occurred by jvm during execution
- D.hello
hi
- E.Infinite times hello
- F.None of the above

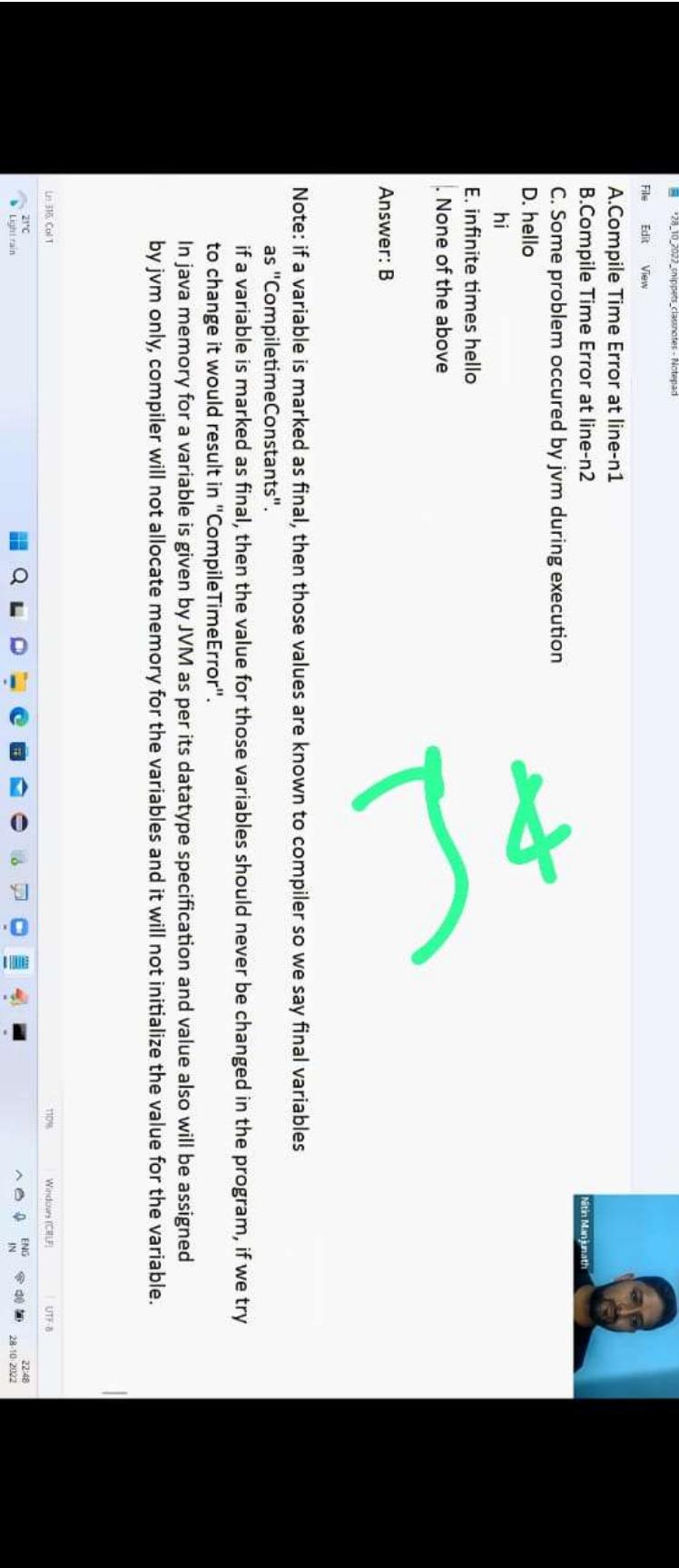
Answer: B

Ur 310, Col 1 10% Windows (CEP) UTF-8 28.10.2022 22:44

21°C Light rain

Q D E F G H I J K L M N P S T C V Y





Answer: B

Note: if a variable is marked as final, then those values are known to compiler so we say final variables as "CompiletimeConstants".

if a variable is marked as final, then the value for those variables should never be changed in the program, if we try to change it would result in "CompileTimeError".

In java memory for a variable is given by JVM as per its datatype specification and value also will be assigned by jvm only, compiler will not allocate memory for the variables and it will not initialize the value for the variable.

Note: if a variable is marked as final, then those values are known to compiler so we say final variables

as `LomboltetimeConstants`. If we try to change the value for these variables, then the value for `lomboltetime` will also change.

to change it would result in "CompileTimeError".

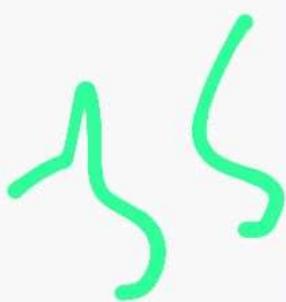
In Java memory for a variable is given by JVM as per its datatype specification and value also will be assigned by JVM only, compiler will not allocate memory for the variables and it will not initialize the value for the variable.

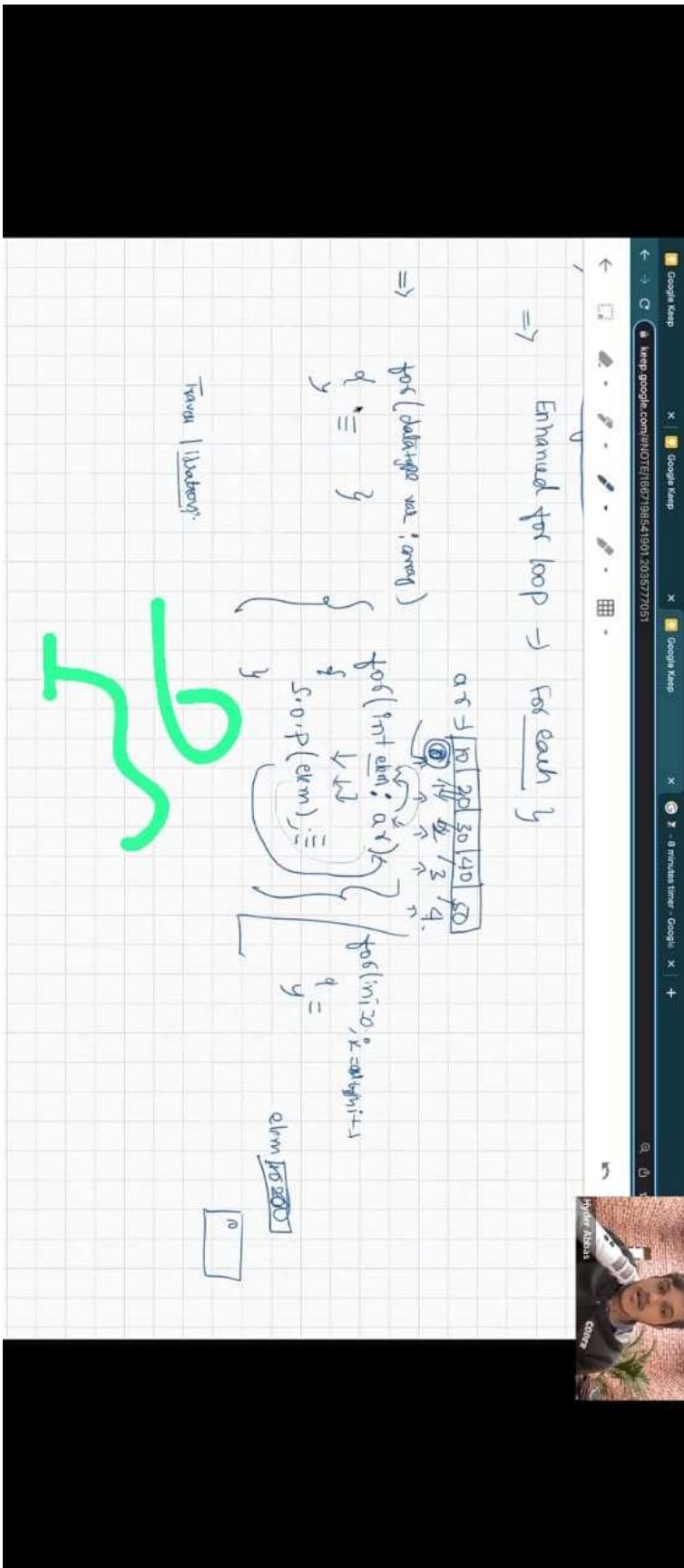
```
eg: int a =10;
```

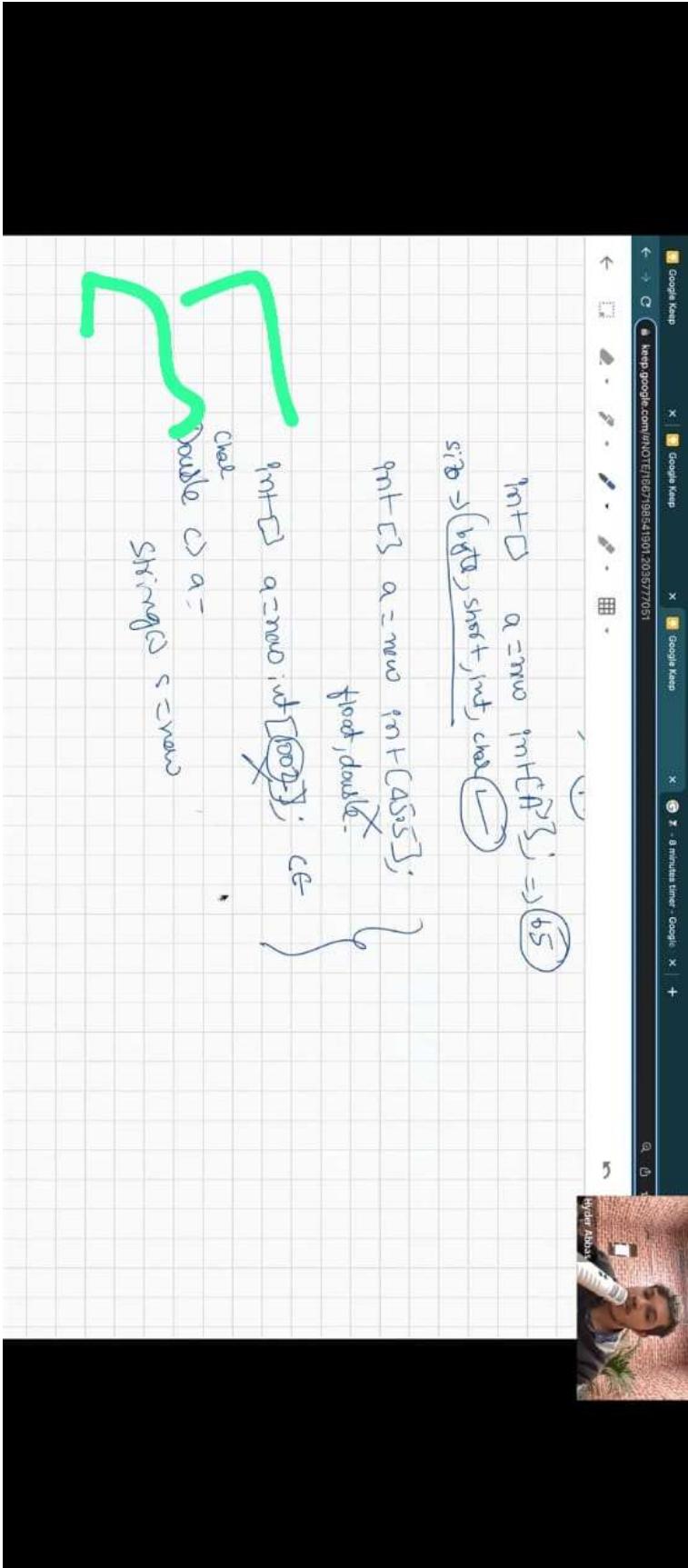
```
System.out.println(a); //11
```

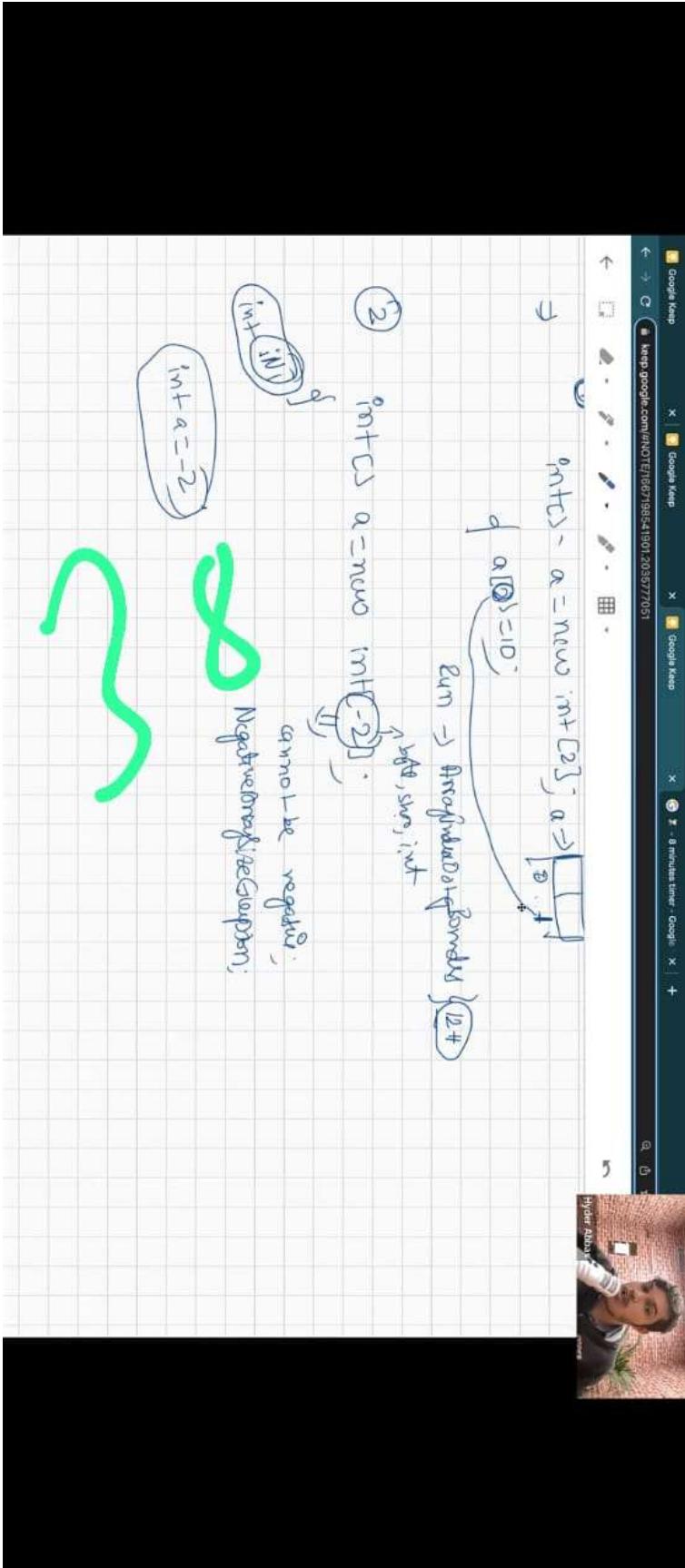
e.g. `main int a = 10;`
`a++; // a = a + 1; // CE: value can't be re-assigned`

348/Volume 30 Number 3, September 2008









39

(3)

④ int & a = new int[good size];

↓
but wrong length

⇒ int & a = new int[2];

a[0] = 10

a[1] = ~~apple~~ "y"

↳ length y



40

```
1 public class LaunchAr {  
2     public static void main(String[] args) {  
3         // TODO Auto-generated method stub  
4         int[] ar = {10,20,30,40};  
5         {  
6             for(int i=ar.length-1; i>=0 ;i--)  
7                 System.out.print(ar[i] + " ");  
8         }  
9     }  
10    }  
11    {  
12        System.out.print(ar[i] + " ");  
13    }  
14    }  
15    {  
16        System.out.print(ar[i] + " ");  
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982   }  
983   }  
984   }  
985   }  
986   }  
987   }  
988   }  
989   }  
990   }  
991   }  
992   }  
993   }  
994   }  
995   }  
996   }  
997   }  
998   }  
999   }  
1000   }
```

4.1



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

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

②

Traverse matrix - only in forward direction

① Limitations of traversal always assume

→



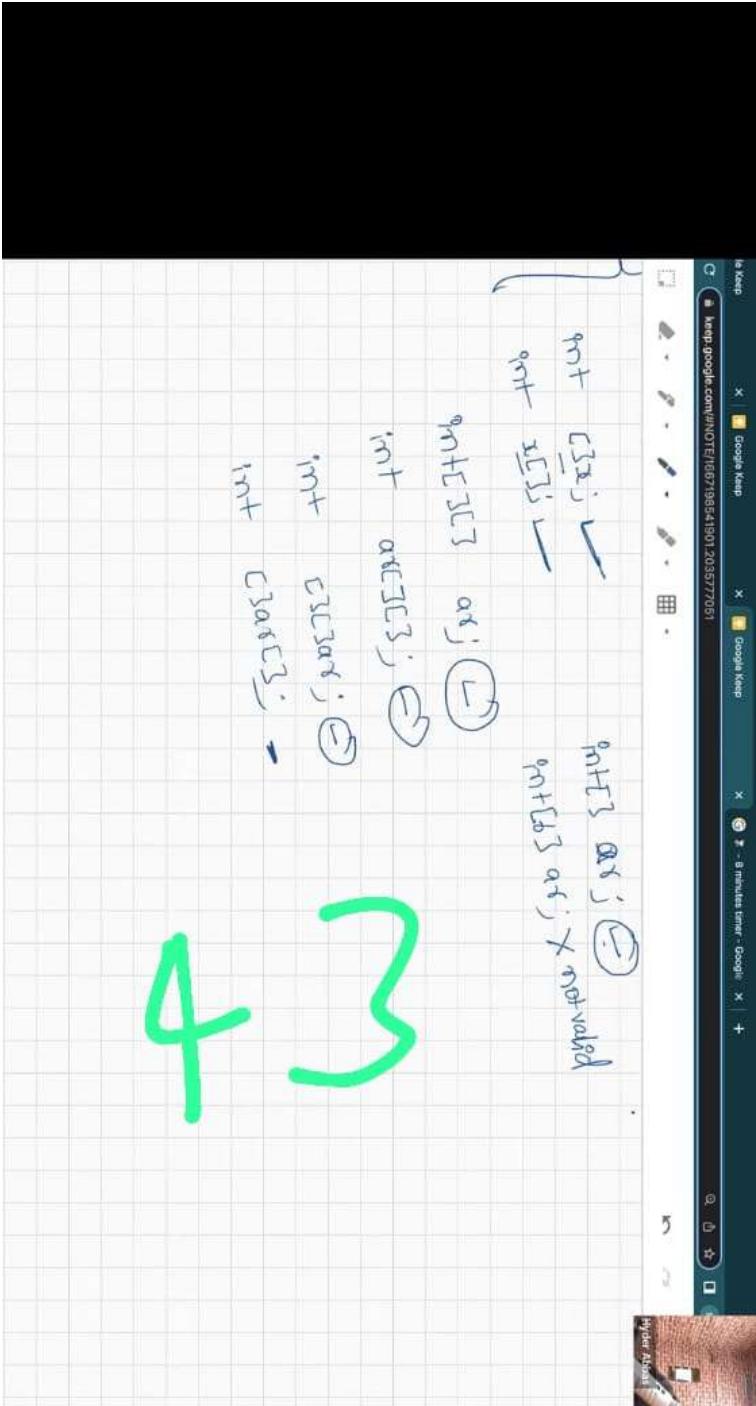
keep.google.com/2019/05/20/203977051

42

Diagram illustrating the execution of a for-each loop in Java:

- Stack Frame:** A box labeled `for1` contains a local variable `x` with value `new int[4]`.
- Loop Body:** The loop body is indicated by a brace {} containing code to print each element of the array.
- Output:** The output is `42`, representing the elements of the array being printed.





The value of the local variable 'a' is not used

```
1 package com.example.launchar;
2
3 import android.app.Activity;
4 import android.os.Bundle;
5 import android.view.Menu;
6 import android.view.MenuItem;
7 import android.widget.TextView;
8
9
10 public class LaunchAr2 extends Activity {
11
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_launch_ar2);
16
17         TextView textView = (TextView) findViewById(R.id.textView);
18
19         textView.setText("LaunchAr2");
20
21     }
22
23 }
24
25 }
26 }
```

44

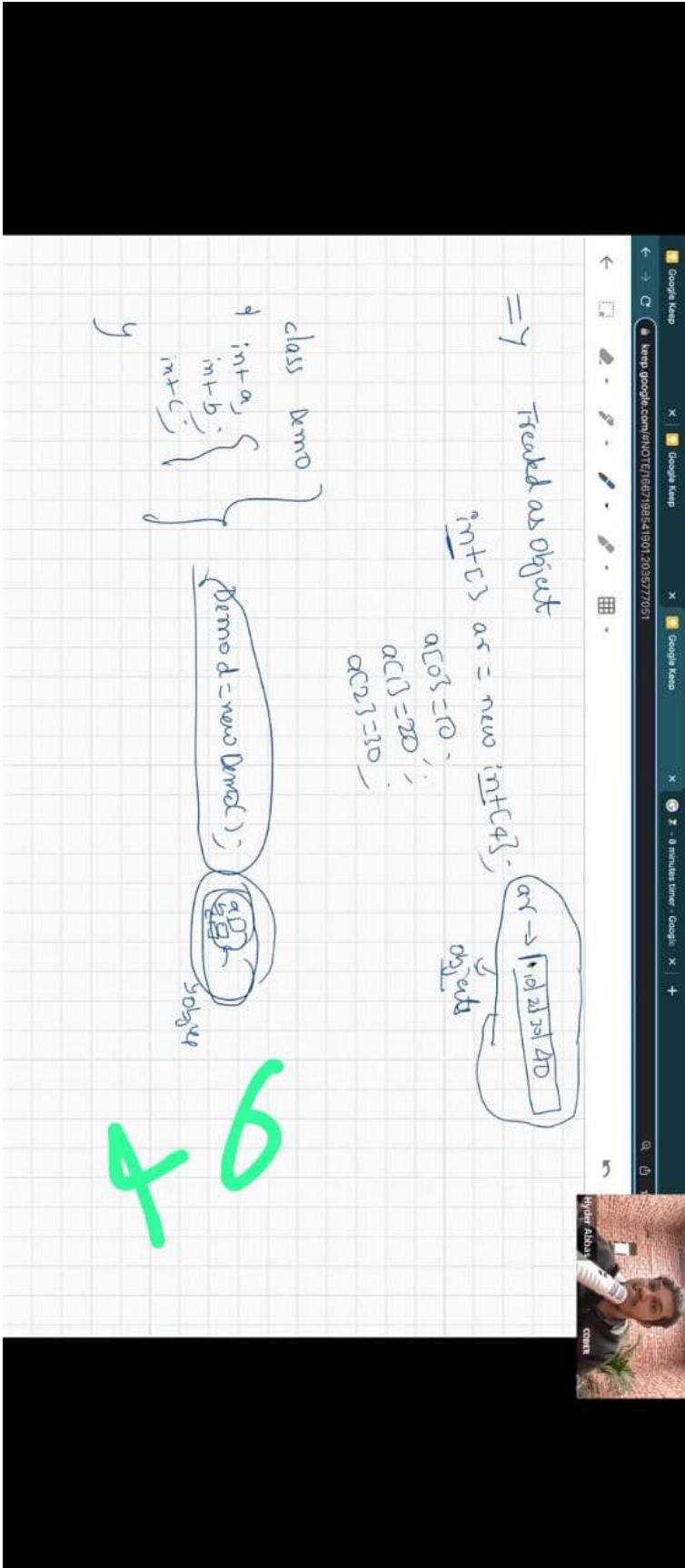
A screenshot of a Java IDE interface. On the left, there's a code editor with handwritten green annotations. The code is:

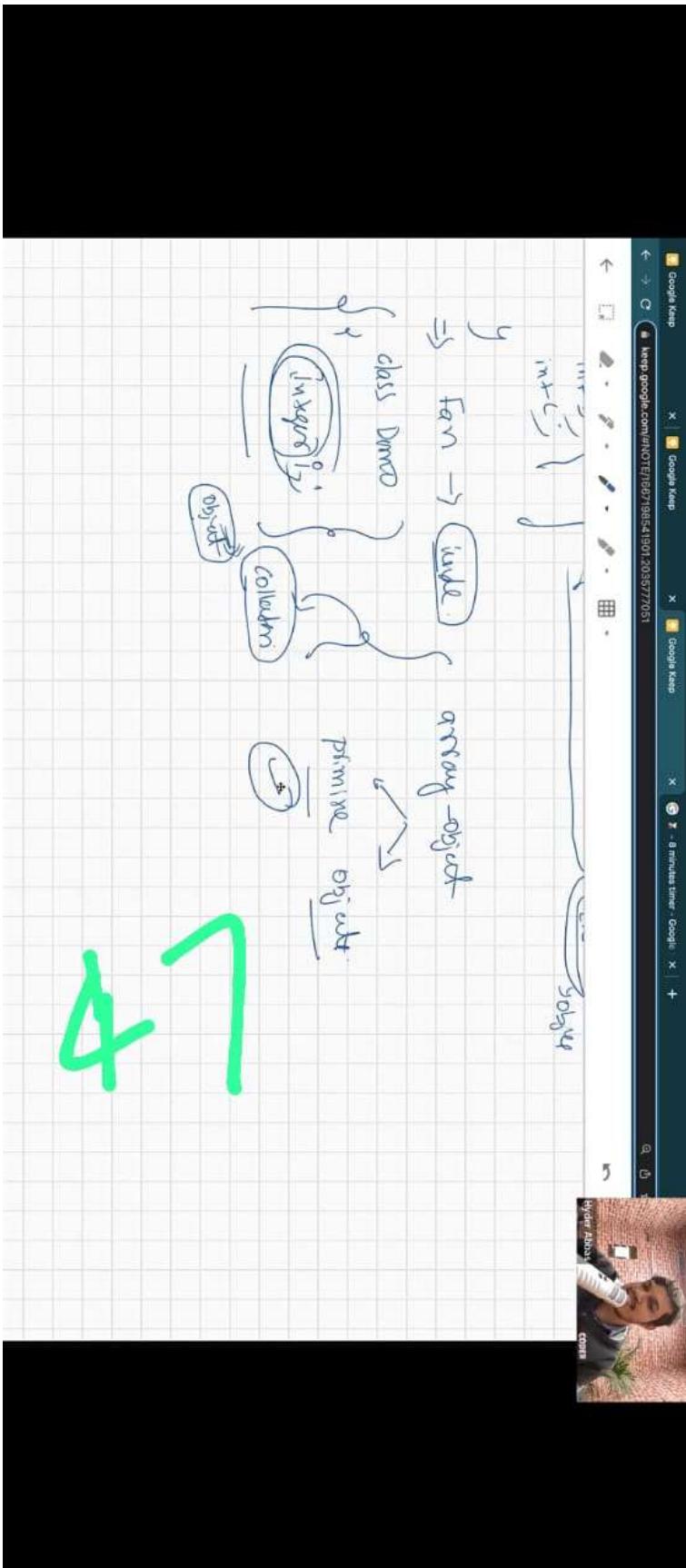
```
1 package Engine;
2
3 import java.awt.*;
4 import javax.swing.*;
5
6 public class MainFrame extends JFrame {
7     public MainFrame() {
8         setLayout(new GridLayout(1, 1));
9         add(new GamePanel());
10    }
11 }
12
13 int[] ab, cd;
14 ab = new int[4];
15 cd = new int[5];
16
17 int m, n, o;
18 n = 20;
19 o = 40;
20
21 int[] xx, yy; // xx=2d, yy=2d
22 int[] x, y; // x=3d, y=2d
23
24 int[] xy[], yz; // xx 3d, yz 2d
25
26 int[] aa, bb[]; // aa= 2d, bb=3d
27
28 //int[] arr, []arr; CE
29 int[] aaa, bbb[];
```

The code editor has several annotations:

- Annotation 1: A large green 'S' is drawn over the first two lines of code.
- Annotation 2: A green arrow points from line 13 to line 14.
- Annotation 3: A green arrow points from line 14 to line 15.
- Annotation 4: A green arrow points from line 21 to line 22.
- Annotation 5: A green arrow points from line 24 to line 25.
- Annotation 6: A green arrow points from line 26 to line 27.
- Annotation 7: A green arrow points from line 28 to line 29.

On the right side of the IDE, there is a video player window showing a person speaking. The video player has a progress bar at the bottom and a timestamp of "28:32 / 42:2".





48

$\Rightarrow \{ \Rightarrow$
 $\text{int} \& a = \text{new } \text{int}\{ \}$ $\rightarrow \times \text{ Long, float}$
size
double, boolean
long, short, int, when
 $\text{int} \& a = \text{new } \text{int}\{ \}$.



49

```
int [] a=new int[4];
System.out.println(a.getClass().getName());
int [] [] ar=new int [4][2];
System.out.println(ar.getClass().getName());
```

16

Hyder Albari

Writable

Smart Insert

15:09:267

~~Abstract type~~ → class → not for polymorphism. []

about type

Sort by
binoculars

←

1

1

2

1

50

int arr = {10, 20, 30, 40};
for (int i=0; i<arr.length; i++)
 arr[i] = 5;

int a[4] = new int[4];
for (int i=0; i<a.length; i++)
 a[i] = 5;





```
1 package com.simplenote;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 public class Note {
7     private String title;
8     private String content;
9
10    public Note(String title, String content) {
11        this.title = title;
12        this.content = content;
13    }
14
15    public String getTitle() {
16        return title;
17    }
18
19    public void setTitle(String title) {
20        this.title = title;
21    }
22
23    public String getContent() {
24        return content;
25    }
26
27    public void setContent(String content) {
28        this.content = content;
29    }
30
31    @Override
32    public String toString() {
33        return "Note{" +
34                "title='" + title + '\'' +
35                ", content='" + content + '\'' +
36                '}';
37    }
38}
```

The screenshot shows a Java code editor with a dark theme. The code is a simple class named Note with methods for title and content. A large green hand-drawn letter 'S' is visible in the top-left corner of the image. The code editor has tabs for 'Launch1.java', 'Launch2.java', 'Launch3.java', and 'Launch4.java'. The 'Launch1.java' tab is active. The status bar at the bottom shows 'Writtie', 'Smart Insert', '17:40:265', and a battery icon.

```
public class Launch123 {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int[] ar = {25, 30, 40, 70, 10};
        int max = ar[0];
        for(int i=0;i<ar.length;i++) {
            if(ar[i]>max)
                max=ar[i];
        }
        System.out.println("The max value is "+max);
    }
}
```

The image shows a Java code editor with handwritten annotations. A large green 'S' is drawn over the top left of the window. The code in the editor is as follows:

```
public class Launch123 {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int[] ar = {25, 30, 40, 70, 10};
        int max = ar[0];
        for(int i=0;i<ar.length;i++) {
            if(ar[i]>max)
                max=ar[i];
        }
        System.out.println("The max value is "+max);
    }
}
```

Annotations in the code:

- Handwritten '25' is circled in red above the first element of the array.
- Handwritten '40' is circled in red above the second element of the array.
- Handwritten '70' is circled in red above the fourth element of the array.
- Handwritten '10' is circled in red above the fifth element of the array.
- Handwritten '25' is circled in red above the variable 'max'.
- Handwritten '0->5' is written next to the assignment 'max=ar[i];'.
- Handwritten '40 > 25' is written next to the assignment 'max=ar[i];'.
- Handwritten '70 > 50' is written next to the assignment 'max=ar[i];'.
- Handwritten '25 > 25' is written next to the assignment 'max=ar[i];'.



```
//MAP to get min and max elem in an array
int[] arr = {25,30,40,70,10};

int max = arr[0];
for(int i=0;i<arr.length;i++)
{
    if(arr[i]>max)
        max=arr[i];
}

System.out.println("The maximum value is "+max);

int min=arr[0];
for(int i=0;i<arr.length;i++)
{
    if(arr[i]<min)
        min=arr[i];
}

System.out.println("The min value is "+min);
```

The code is a Java program designed to find the minimum and maximum values in an integer array. It initializes an array with elements 25, 30, 40, 70, and 10. It then iterates through the array, comparing each element to the current maximum and minimum values. If an element is greater than the current maximum, it becomes the new maximum. Similarly, if an element is less than the current minimum, it becomes the new minimum. Finally, it prints the maximum and minimum values using the System.out.println() method.



```
31.10.2022_20inputs_session_4_describes - Notepad  
File Edit View  
  
int x=0;  
switch(x){  
    case 0:System.out.println("hello");  
    break ;//it is used to avoid fallthrough in switch  
    case 1:System.out.println("hi");  
}  
}  
  
Predict the Output:  
A.Compile Time Error  
B. Some problem occurred by jvm during execution  
C.hello  
hi  
D. hello  
  
Answer: D
```

Q>

Ln 28 Col 4

22°C
mostly clear

10% Windows (CEP) | UTF-8

ENG IN 22:05 31.10.2022

31-10-2022_20inputs_session_4_describes - Notepad

File Edit View

Q>

```
class Test{
    public static void main(String args[]){
        for(int i=0; i<10; i++){ // i = 0,0<10(true),i = 1,1<10(true)
            if(i==5)
                break;//control will come out of the executing loop
            System.out.println(i);//0,1,2,3,4
        }
    }
}
```

Predict the Output:

- A.Compile Time Error
- B. Some problem occurred by jvm during execution
- C.0 1 2 3 4
- D.0 1 2 3 4 6 7 8 9

Answer: C

56

11:45 Col 1 10% Windows (CEP) UTC+5

22°C Mostly clear ENG ⌂ 22:08 31-10-2022

31-10-2022_Z:\inputs\session 4\describes - Notepad

File Edit View

O>

```
class Test{
    public static void main(String args[]){
        int x=10;
        [1 : {
            System.out.println("begin");
            if(x==10)
                break [1];
            System.out.println("end");
        }
        System.out.println("hello");
    }
}
```

Predict the Output:

A. Compile Time Error

B. Some problem occurred by jvm during execution

C. begin

end

10% Windows (C:\UF) UTF-8 ENG IN 22:13 31-10-2022

22°C Mostly clear

31-10-2022 snippets/session_2_desmos - Notepad

File Edit View

```
class Test{
public static void main(String args[]){
    int x=10;
    if(x==10)
        break;
    System.out.println("hello");
}
}
```

Predict the Output:

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

Answer: A {break can be used in switch,loop and labelled block,otherplace compile time error|

10% Windows (CEP) UTC+5

100% ENG IN 22:55 31-10-2022

```
File Edit View  
Q>  
class Test{  
    public static void main(String args[]){  
        int x=2;  
        for(int i = 0; i<10;i++){  
            if(i%6==0)  1  
                continue;//it will skip the current iteration and proceeds with next iteration  
            System.out.println(i);  
        }  
    }  
}  
  
Predict the Output:  
A. Compile Time Error  
B. Some problem occurred by jvm during execution  
C. 0 2 4 6 8  
D. 1 3 5 7 9  
E. None of the above
```

Answer: D

- B. Some problem occurred by jvm during execution
C. 0 2 4 6 8
D. 1 3 5 7 9

59

31-10-2022_snippets/session_4_describes - Notepad

File Edit View

Q>

```
class Test
{
    public static void main(String args[]){
        int x=10;
        if(x==10)
            continue;//continue can't be used here
        System.out.println("hello");
    }
}
```

Predict the Output:

- A. Compile Time Error
- B. Some problem occurred by jvm during execution
- C. hello
- E. None of the above

60

Answer: A

178 Col 1 10% Windows (CET) UTC+6 ENG IN 22:20 31-10-2022

22°C mostly clear

```
31-10-2022_29inputs_session_descriptions - Notepad  
File Edit View  
Q>  
class Test{  
    public static void main(String args[]){  
        int x=0;  
        switch(x){  
            case 0:System.out.println("hello");  
            continue;  
            case 1:System.out.println("hi");  
        }  
    }  
}  
Predict the Output:  
A.Compile Time Error  
B. Some problem occurred by jvm during execution  
C.hello  
D. hello  
  
Answer: A
```

hi

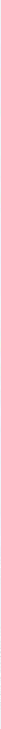
```
131,10,2022,20mines_position.classnames - Notepad
File Edit View
Q>
class Test{
public static void main(String args[]){
    int x=0;
    switch(x){
        case 0:System.out.println("hello");
        continue;
        case 1:System.out.println("hi");
    }
}
}

Predict the Output:
A.Compile Time Error
B. Some problem occurred by jvm during execution
C.hello
    hi
D. hello

Answer: A(continue can be used only in loops and labelled block, other places compile time error)
```

62

2017, Vol 2

A vertical column of small, semi-transparent icons representing various Windows applications and system functions, such as File Explorer, Task View, Start, Taskbar settings, and system status indicators.

63

11

D. hello

Answer: A(continue can be used only in loops and labelled block, other places compile time error)



File Edit View
D. hello

Answer: A(continue can be used only in loops and labelled block, other places compile time error)

```
I1:  
for()  
{  
I2: for()  
{  
I3: for()  
{  
break/break I3;  
}  
break I2;  
}  
stmt-1;  
}  
stmt-2;  
}  
stmt-3;
```

64

20°C
mostly clear



Un 162°C 10

20°C

mostly clear

10% | Windows (CET)

UTF-8

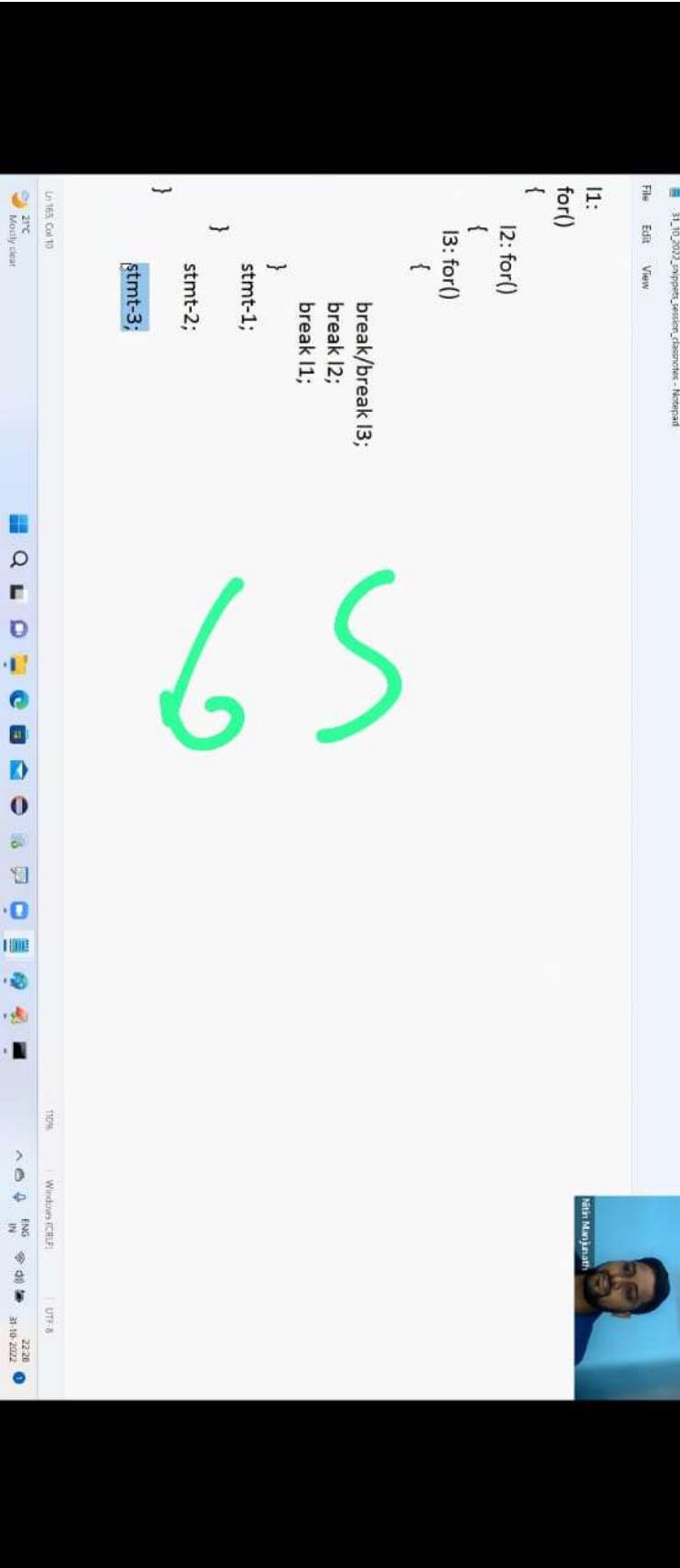
ENG IN

22:20

31-10-2022

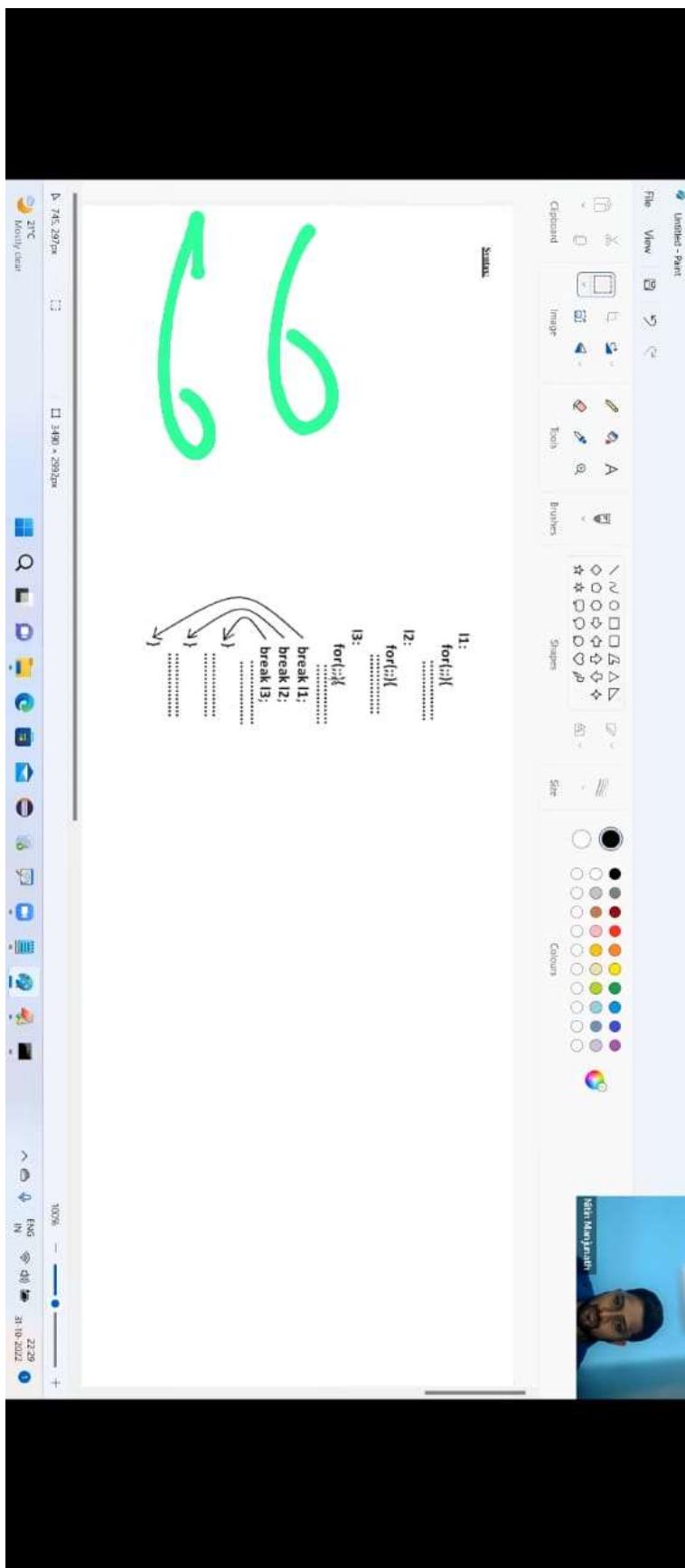
●





```
31-10-2022 snippet_session_of_loops - Notepad
File Edit View
l1:
for()
{
l2: for()
{
l3: for()
{
break/break l3;
break l2;
break l1;
}
stmt-1;
}
stmt-2;
}
stmt-3;
```

65



File Edit View
hi
D. hello

Answer: A(continue can be used only in loops and labelled block, other places compile time error)

```
l1:  
for()  
{  
l2: for()  
{  
l3: for()  
{  
  
break;/break l3; // goto stmt-1  
break l2; //goto stmt2  
break l1;// goto stmt3  
}  
stmt-1;  
}  
stmt-2.
```

67

Un 187°C/1
20°C
mostly clear



10% Windows (CEP) UTR-8

ENG IN 22:29 31.10.2022

31-10-2022_201955Session 4 Descriptive - Notepad

File Edit View

O>

```
class Test{
    public static void main(String args[]){
        i1:for(int i=0;i<3;j++)// i = 0,0<3(true), i = 1, 1<3(true), i = 2, 2<3(true), i = 3,3<3(false)
        {
            for(int j=0;j<3;j++)//j = 2, 2<3(true)
            {
                if(i==j)
                    stmt1;
                System.out.println(i+" "+j);// 1 0 2 0 2 1
            }
        }
    }
}
```

replace stmt1 with break and predict the output?

Answer:1 0 2 0 2 1

69

31-10-2022, session 2, session - Notepad

File Edit View

```
public static void main(String args[]){
    for(int i=0;j<3;i++) // i = 3, 3<3(false)
        for(int j=0;j<3;j++)// j = 0,0<3(true),j = 1,1<3(true),j = 2,2<3(true)
    {
        if(i==j)
            stmt1; // System.out.println(i+" "+j); // 01, 02,10,12,20,21,
    }
}
```

replace stmt1 with break and predict the output?
Answer: 1 0 2 0 2 1

replace stmt1 with break [1] and predict the output?
Answer: no output

replace stmt1 with continue and predict the output?
Answer: // 01, 02,10,12,20,21

71

```
131_01_002_composite_loops_and_characters_Nicenand
```

File Edit View

```
System.out.println(i+" "+j); //10 20 21
```



```
}
```

```
}
```

```
}
```

```
}
```

replace stmt1 with break and predict the output?
Answer: 1 0 2 0 2 1

replace stmt1 with break |1 and predict the output?
Answer: no output

replace stmt1 with continue and predict the output?
Answer: 01, 02, 10, 12, 20, 21

replace stmt1 with continue |1 and predict the output?
Answer: 10 20 21

72

Un 190, Col 10
20°C
mostly clear



100% Windows (CEP7) UTF-8

ENG ⌂ ⌂ ENG IN 22:45 31-10-2022

```
File Edit View
while(true){
    System.out.println("hello");//line-n1
    System.out.println("hi");//line-n2
}
Predict the output
A. Compile time error at line-n1
B. some problem occurred during jvm execution.
C. Compile time error at line-n2
D. hello
    hi
E. hello infinite times
F. None of the above

Answer: C
```

Q>

11:27 AM 31-10-2022 (https://www.geeksforgeeks.org/- Recent)

File Edit View

```
while(true){
    System.out.println("hello");//line-n1
    System.out.println("hi");//line-n2
}

```

Nitin Manjrekar

10% Windows (CEP) UTF-8

ENG IN 22:46 31-10-2022

File Edit View
E. hello infinite times
F. None of the above

Answer: C

Q>
class Test{
 public static void main(String args[]){
 if(true){
 System.out.println("hello");//line-n1
 }
 else{
 System.out.println("hi");//line-n2
 }
 }
}

Predict the output

- A. compile time error at line-n1
- B. some problem occurred during jvm execution.
- C.Compile time error at line-n2

74

20°C
mostly clear



Un 20% | 21:10:2022

ENG IN 22:47

21:10:2022



The screenshot shows a Java code editor window with the following code:

```
11-10-2022 (input.java: Line 1 to Line 2) - Notepad
File Edit View
System.out.println("hi");//line-n1
}
}
Predict the output
A. compile time error at line-n1
B. some problem occurred during jvm execution.
C.Compile time error at line-n2
D. hello
hi
E. hello
F. hi
G. None of the above
```

Below the code editor is a video call interface showing a person's face. A large green hand-drawn mark, resembling a checkmark or a stylized 'S' shape, is overlaid on the video feed.

Answer: E

Concept of unreachable holds good only for loops(for,while,dowhile), compiler will ignore unreachable for if else syntax.

11:29 AM 64°
20°C
mostly clear



100% Windows (CEP) UTF-8

ENG IN 22:49 31-10-2022

10/10/2022 10:26:57 - 10:26:57 - 10:26:57 - 10:26:57

```
System.out.println("hi");//line-n2
```

2

Predict the output

- A. compile time error at line-n1
- B. some problem occurred during jvm execution.

C.Compile time error at line-n2

E

F. H.

Answer: E

Concept of unreachable holds good only for loops(for,while,dowhile), compiler will ignore unreachable for if else and switch syntax.

Unit 49, Cal T
21°C
Mostly clear

16