

Operators_Conditional_Op_Switch

⇒ Addition, }

⇒ → operators in java

→ Arithmetic operators (+, -, *, /, %)

→ Increment & Decrement (++, --)

→ Logical operators &&, ||, !

→ Assignment ⇒

→ Conditional

↓ Ternary operator { if-else }

→ Bitwise & shift

→ Relational operators →





\Rightarrow logical \rightarrow 22, 11, 1

AND \Rightarrow 22

OR \Rightarrow 11

NOT \Rightarrow 1

exp1	exp2	exp3	Result
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	0
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0

7



$\neg p \Rightarrow f$ $p \Rightarrow T$

2.8 \Rightarrow If all True $\Rightarrow T$
 \hookrightarrow If all True $\Rightarrow f$

If $\neg p \Rightarrow f$
 If all $f \Rightarrow f$

$p \Rightarrow \neg p \Rightarrow f$

$\neg p$

11 \Rightarrow If all $T \Rightarrow T$
 If $T \Rightarrow T$
 If $\neg p \Rightarrow T$
 If all $f \Rightarrow f$

25

\Rightarrow Relational operators \Rightarrow comparison results

$>$ $<$ $(a > b)$ $(a < b)$ $==$ $!=$

\Rightarrow $\text{int } a = 10;$ $\text{int } b = 20;$ $\left. \begin{array}{l} (a > b) \Rightarrow \text{F} \\ (a < b) \Rightarrow \text{T} \end{array} \right\}$

\Rightarrow $(a == b) \Rightarrow \text{False}$
 $(a > b) \Rightarrow \text{F}$
 $(a < b) \Rightarrow \text{T}$

6



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5

elider Abbas

\Rightarrow $\boxed{10} \oplus 10$

Assignment \Rightarrow

\hookrightarrow = single output $\boxed{10}$

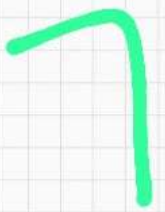
$out \oplus a = 10$

- crossed output

$in + a, b, c, d$

$d \leq 5$

\Rightarrow $\left\{ \begin{array}{l} in + a \\ in + b \\ in + c \\ in + d \end{array} \right.$



11:59 AM



32

Left → 1 ← (10)

Assignment & inverse binary

(0-1)

Binary ⇒

(a = b)

(a + b)
(a - b)

3



$a = a + 20$
 $a += 20$

$(a) -$

one operand sufficient to perform \Rightarrow unary

more one operand

\Rightarrow un = unary

$if(a \neq 10);$
 one

$a += 20;$
 1

$a++ \rightarrow$ way
 loop \rightarrow

$a++ \rightarrow$ one value incremented

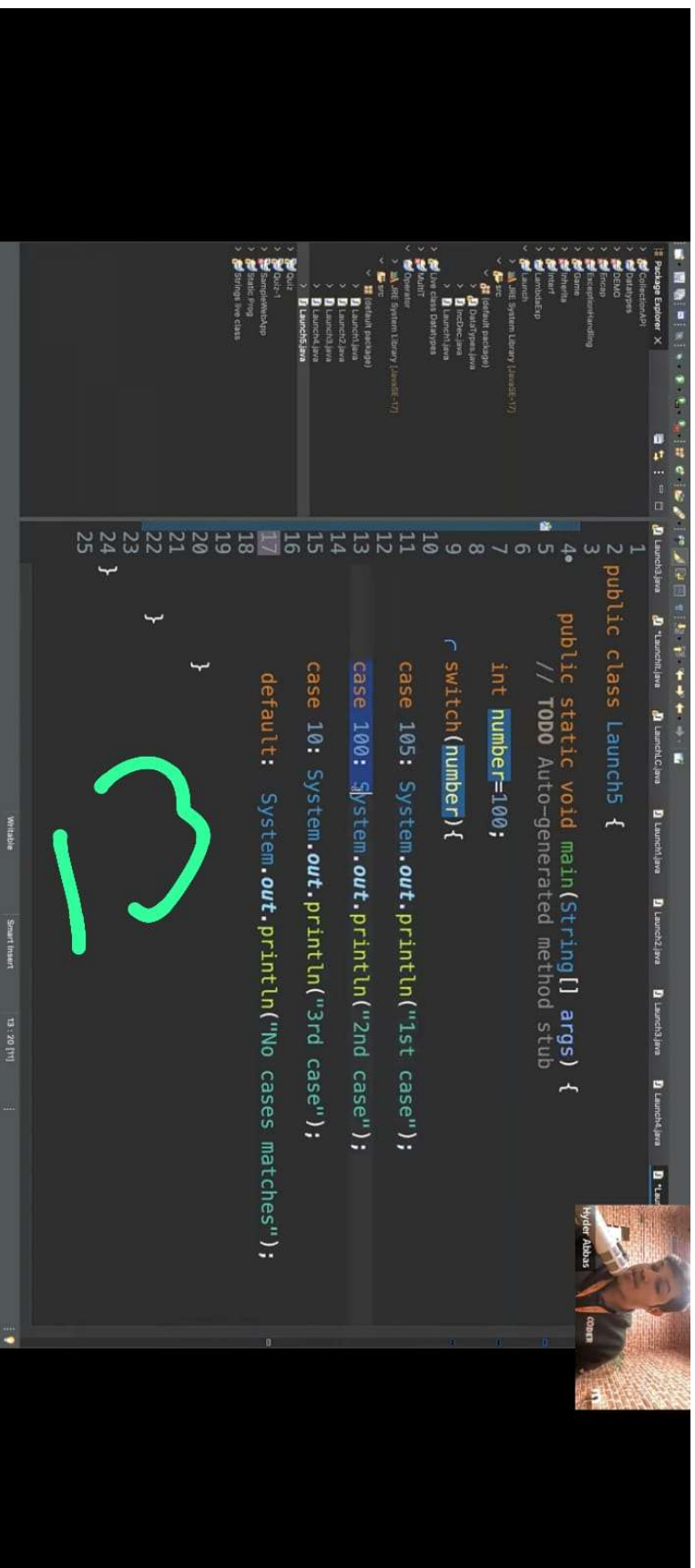
Δ
 \rightarrow



based on condition

if-else || ternary op

```
int a = 10;
int b = 5;
if (a > b)
{
    int res = a - b;
    s.o.p(res);
}
else
{
    int res = a + b;
    s.o.p(res);
}
```

```
public class Test {  
    public static void main(String[] args){  
        args[1] = "Day!";  
        System.out.println(args[0] + " " + args[1]);  
    }  
}
```

And the commands:

```
javac Test.java  
java Test Good
```

What is the result?

- A. Good
- B. Good Day!
- C. Compilation Error
- D. JVM would create a problem during execution

8.

Consider below code of Test.java file:

```
public class Test {  
    public static void main(String[] args){  
        System.out.println("Welcome " + args[0] + "!" );  
    }  
}
```

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7.

Given code of Test.java file:

```
public class Test {  
    public static void main(String[] args){  
        args[1] = "Day!";  
        System.out.println(args[0] + " " + args[1]);  
    }  
}
```

And the commands:

```
javac Test.java  
java Test Good
```

What is the result?

- A. Good
 - B. Good Day!
 - C. Compilation Error
 - D. JVM would create a problem during execution
- answer : D

5



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Shapes

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Colours

16

Nitin Manjunath

java Test Good

args[1] = "Day!";

System.out.println(args[0] + " " + args[1]);

args

0

Good

+

java "James Gosling" "Bill Joy"

System.out.println("Welcome " + args[0] + "!");

args

0

James Gosling

1

Bill Joy

787,164px

3490 x 2592px

23°C

Cloudy

100%

ENG

IN

22:14

17/10/2022

```
public static void main(String[] args){  
    System.out.println("Welcome " + args[0] + "!");  
}
```

And the commands:

```
javac Test.java
```

```
java Test "James Gosling" "Bill Joy"
```

What is the result?

- A. Welcome James Gosling!
 - B. Welcome Bill Joy!
 - C. Welcome "James Gosling"!
 - D. Welcome "Bill Joy"!
 - E. Welcome James!
 - F. Welcome Gosling!
 - G. Welcome Bill!
 - H. Welcome Joy!
- answer : A

3



H. Welcome Joy!

answer : A

10.

Consider below code of Test.java file:

```
public class Test {  
    public static void main(String[] args) {  
        boolean b1 = 0;  
        boolean b2 = 1;  
        System.out.println(b1 + b2);  
    }  
}
```

What is the result of compiling and executing Test class?

- A. 0
 - B. 1
 - C. true
 - D. false
 - E. compilation error
- answer : E



11.

Given:

35. String #name = "Jane Doe";

36. int \$age = 24;

37. Double _height = 123.5;

38. double ~temp = 37.5;

Which two statements are true? (Choose two.)

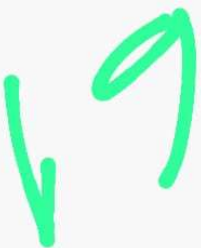
A. Line 35 will not compile.

B. Line 36 will not compile.

C. Line 37 will not compile.

D. Line 38 will not compile.

answer : A,D



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12.

What will be the result of compiling and executing Test class?

```
public class Test {
    public static void main(String[] args){
        byte b1 = (byte) (127 + 21); // byte b1 = (byte)(148)
        System.out.println(b1);
    }
}
```

- A. 148
- B. Compilation Error
- C. -108
- D. -128

JVM : minrange + (result-maxrange-1)

$$= -128 + (148 - 127 - 1)$$

$$= -128 + (148 - 128)$$

$$= -128 + (20)$$

$$= -108$$

20



13.

Consider below code of Test.java file:

```
public class Test {  
    public static void main(String[] args) {  
        char c1 = 'a'; //ASCII code of 'a' is 97  
        int i1 = c1; //Line n1 // char----> int (implicit typecasting)  
        System.out.println(i1); //Line n2  
    }  
}
```

What is the result of compiling and executing Test class?

- A. a
 - B. 97
 - C. Line n1 causes compilation failure
 - D. Line n2 causes runtime error.
- answer : B



14.

Given code of Test.java file:

```
public class Test {  
    public static void main(String[] args) {  
        byte b1 = 10; //Line n1  
        int i1 = b1; //Line n2 Compiler : byte-----> int(implicit typecasting)  
        byte b2 = i1; //Line n3 Compiler : int-----> byte (hey not possible u explicitly tell)  
        System.out.println(b1 + i1 + b2);  
    }  
}
```

What is the result of compiling and executing Test class?

- A. Line n1 causes compilation error
- B. Line n2 causes compilation error.
- C. Line n3 causes compilation error.
- D. 30 printed on to console. ¹

answer : d



15.

For the given code what is the output?

```
int x=100;  
int a=x++; // a = 100, x = 101  
int b= ++x; // b = 102, x = 102  
int c= x++; // c = 102, x = 103  
int d= (a<b) ? a : (b<c) ? b : c; //int d= (100<102)?(100<102):100  
System.out.println(d); //100
```

- A. 100
- B. 101
- C. 102
- D. 103

E. compilation fails

answer: A



16.

class Test

{

public static void main(String[] args)

{

int a=100; // a = 10-

System.out.println("-a++");//System.out.println(-100); now a = 101

}

}

A. -101

B. 99

C. Compilation error

d. -100

e. -99

answer : d

24



- A. -101
 - B. 99
 - c. Compilation error
 - d. -100
 - e. -99
- answer : d

fallthrough in switch

```
-----  
int a = 97;  
switch(a){  
    case 97: System.out.println("hello");  
    case 98: System.out.println("hhee");  
}
```

output: hello

hhee

since there is no break automatically control executed the next case also, this condition in java under switch we call as "fallthrough".

52

1



*17_10_2022_mppm_cinnotes - Notepad
File Edit View

since there is no break automatically control executed the next case also, this condition in java under switch "fallthrough".

Sir Please You Can Explain For What We Use = a+" "+b+" "+c+" "

```
int a = 10, b = 20, c = 30;  
System.out.println(a + " " + b + " " + c); // 10 20 30
```

```
public class Test {  
    void main(String args[]) {  
        // file name will be supplied from the command line arguments  
        // code written to open the file and read the contents from the file  
    }  
}
```

ind.txt
rahul
rohith



Ln 183, Col 2
22°C
Fairly cloudy



110% Windows (CTRL) UTF-8
ENG IN 22:49
17-10-2022

```
System.out.println(a + " " + b + " " + c); //10 20 30
```

```
javac Test.java  
java Test ind.txt  
java Test aus.txt
```

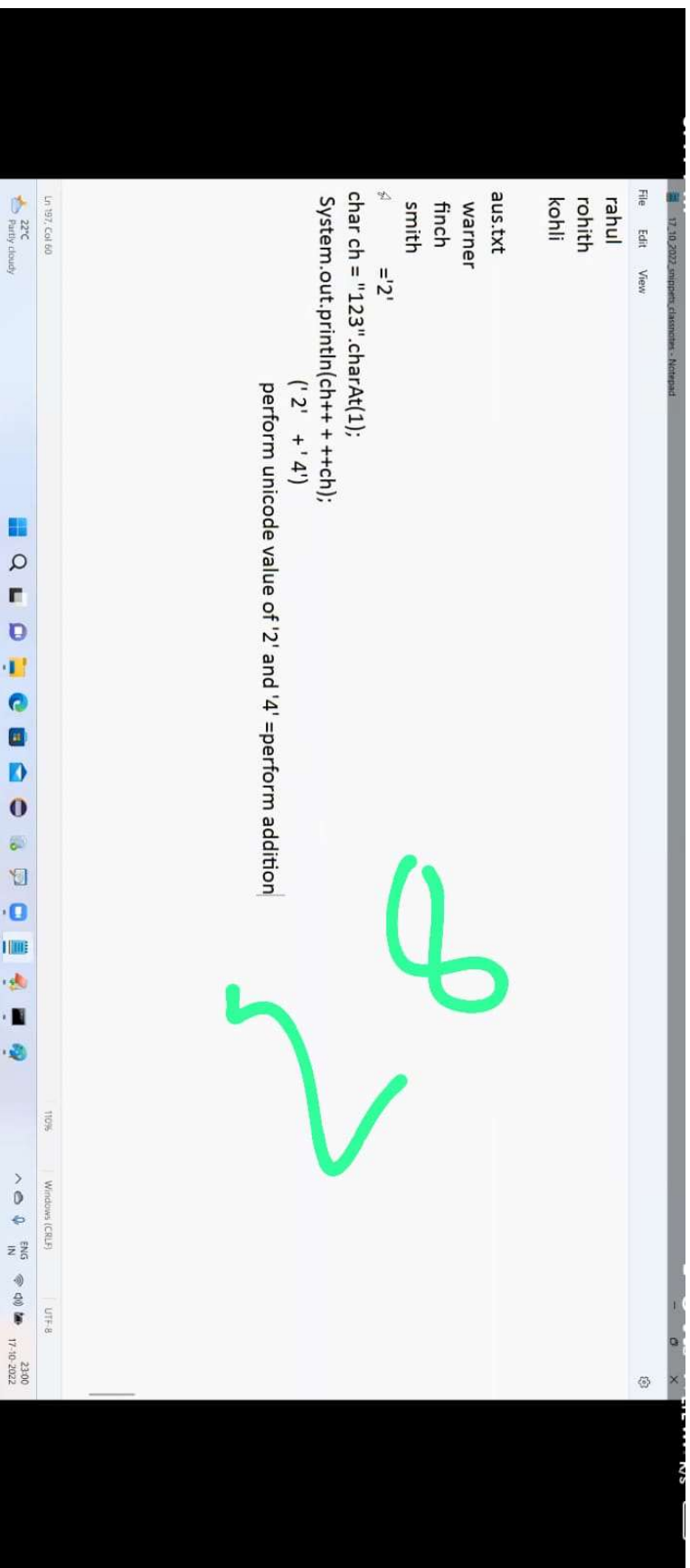
```
public class Test{  
    public static void main(String args[]){  
        //file name will be supplied from the command line arguments  
        //code written to open the file and read the contents from the file  
    }  
}
```

```
ind.txt  
rahul  
rohith  
kohli
```

```
aus.txt
```

```
Ln 180, Col 70
```





```
D:\>javac Test.java
Test.java:7: error: incompatible types: String cannot be converted to char
    char c = "123".valueOf(1);
                   ^
1 error

D:\>javap java.lang.String
```

29

I
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nitin : nitin@ineuron.ai

7.

Given code of Test.java file:

```
public class Test {  
    public static void main(String[] args){  
        args[1] = "Day!";  
        System.out.println(args[0] + " " + args[1]);  
    }  
}
```

And the commands:

javac Test.java

java Test Good

What is the result?

A. Good

B. Good Day!

30

