

## Day 2:- Java script

### Operators and conditional statements-

$+$ ,  $-$ ,  $*$ ,  $/$ ,  $**$ ,  $++$ ,  $--$

Addition

let a=5

let b=2

console.log("a+b=", a+b)

console.log("a-b=", a-b)

Exponentiation  $**$   $a**b$

$a \times b \Rightarrow a^b$

Unary operator

Increment  $++$

Decrement  $--$

$\Rightarrow$   $a++$  (Post increment) Bad ma value change  
 $++a$  (Pre) or pre Pahy change

$a=5$   
 $b=2$

console.log("a=", a, "b=", b);

console.log("a++", a++); // 5 // Pahly print or next

console.log("a=", a);

line say  
value ko  
change kr



$$a = 5$$

or preply ma value  
add karta go or phir  
display

$$++a; \text{ } 1+5$$

$$++a : 6$$

Assignment operators:-

$$\boxed{+} \quad * = \quad / = \quad =$$

$$a + 4 \Rightarrow a = a + 4$$

$$a * 4$$

$$a = a * 4$$

$$a - 4$$

$$a = a - 4$$

$$a \wedge 6$$

$$a = a \wedge 6$$



## Comparison operators:-

$a == b$  Equal to

$a === b$  Equal and also check for data type

$a != b$  not Equal to

$a !== b$  Not Equal and also data type.

let  $a = 5$ ;

$b = '5'$ ; // string <sup>convert into</sup>  $\rightarrow$  number and we compare.

`console.log("a === b" ;  $a !== b$ );`

## Logical operators:-

Logical AND

$\&\&$

cond 1  
true

cond 2  
true

Logical OR

$\parallel$

cond 1

cond 2  
any one true

Logical Not

$!$

$\Rightarrow$  opposite to the expression.



## conditional statements:-

⇒ if ⇒ statement

condition ko check karna  
or uski base pr result  
daina. let mode = "dark"  
let color;

```
if (mode === "dark") {  
    color = "black"  
}
```

```
if (mode === "light")  
{  
    color = "blue"  
}
```

→ if-else statement.

```
let color;  
if (mode === "dark-mode")  
{  
    color = "black";  
}  
else {  
    color = "white";  
}
```



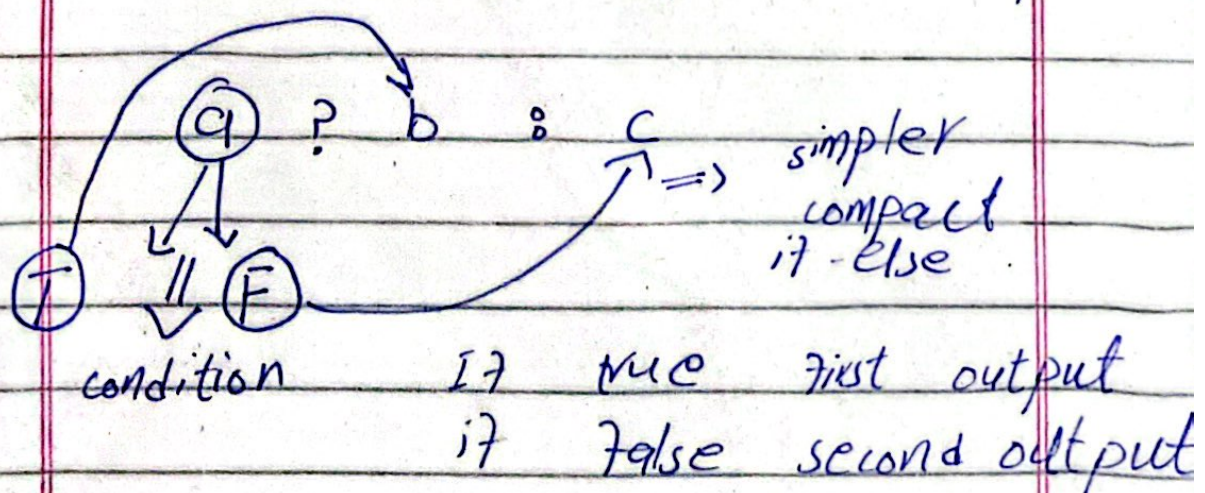
⇒ else-if state

```
if ( age < 18  
{  
}
```

```
else-if ( age > 60 )  
{  
}
```

```
else {  
}  
};
```

⇒ Ternary operators (special)  
condition ? true output : false output





MDN DOCS

And switch

link ([developer.mozilla.org](mailto:developer.mozilla.org))  
↓

prompt in java script

is the way to ask

the value from user.

```
let userInput = prompt("Please enter  
number");
```

```
console.log (userInput);
```