Chapter 2 - Expressions & Conditionals

A fragment of code that produces a value is called an expression. Every value written literally is an expression for ex: 77 or "Harry"

Operators in JavaScript

1> Arithmetic Operators

- + Addition
- Subtraction
- * Multiplication
- * * Exponentiation
- 1 Division
- ++ Increment
- Decrement

2- Assignment Operators

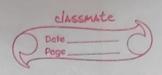
 $= \frac{x=y}{x=x+y}$

-= x=x-y

*= 2 = 2 * y

1= x=x/y

 $\frac{1}{\sqrt{2}} = \frac{\chi}{\chi} = \frac$



37	Comparison Operators
	: wollow
	= = equal to
	anot equal is
	=== equal value and type
Jak	=== equal value and type !== not equal value or not equal type
	> greater than
	< less than
	>= greater than or equal to
	<= less than or equal to
	? ternary operator
1.	logical Mean logs
47	Logical Operators
	2.9 Insical and
	28 logical and
	1) logical or
	1 logical not
	ON I fee Was up also done like and hit is a
10	Apart from these, we also have type and bitwise operators. Bitwise operators perform bit by bit operations
	operators. Biturse operators perform bit by our operations
	on numbers
	7 + 8 = 15 -> Result 1000 00 000 000
	Ly operator
48	to large sit of mont the secretary six
	Comments in Java Script
	Sometimes we want our programs to contain a
	Sometimes we want our programs to contain a text which is not executed by the JS Engine
	Se the standard of the standar
	Such a text is called comment in Javascript

A comment in Javascrift can be written as follows: let a = 2; // This is a single line Comment

Single line Comment

Comment I am a Multiline Comment multiline comment Sometimes comments are used to prevent the execution of some lines of code let switch = true:

11 switch = false - Commented line wont

execute Conditional Statements Sometimes we might have to execute a block of code based off some condition.

For example a prompt might ask for the age of the user and if its greater than 18. display a special message. In JavaScript we have three forms of if ... else Statement. 17 if statement 2, if ... else statement 37 if ... else if ... else statement

If statement In JavaScript looks like this: if (condition) {

// execute this code

3 The if statement evaluates the condition inside the ()
If the condition is evaluated to true, the code inside
the body of if is executed else the code is
not executed. The if statement can have an optional else clause.

The syntax looks something like this if (condition) {
// block of code if condition true
? else &
11 block of lode if Condition false
3 If the condition is true, code inside if is executed else code inside else block is executed Sometimes we might want to keep rechecking a set of conditions one by one until one matches. We use if else if for achieving this.



Syntax of if ... else if looks like this if (age >0) {
(onsole log(" A valid age"); else if (age > 10 && age < 15) {

Console log (" but you are a kid"); else if (age > 18) {
Console log("not a kid"); else E Console log ["Invalid Age"] JavaScript ternary Operator

Evaluates a Condition and executes a block of
Code based on the condition Condition ? exp1: exp2 Example syntax of ternary operator looks like this: (marks 710)? 'yes': 'No' than 10, you are passed else not