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

The state of a

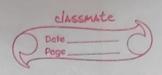
 $= \frac{\chi = y}{\chi = \chi + y}$

-= x=x-y

*= x = x * y

 $\frac{1}{1} = \frac{\chi = \chi/y}{\chi = \chi/y}$

+ # = x = x + * y



37	Comparison Operators
	* malas
	= = lough to
	= = equal to
	not equal
ind.	=== equal value and type !== not equal value or not equal type
	not equal value or not equal type
	> greater than
	< less than
	>= greater than or equal to
	<= less than or equal to
	<= less than or equal to ? ternary operator
	that to want med to realizate
4,	Logical Operators
	surprise to the said to
	28 logical and
	1) logical or
	1 logical not
	(oncidence to the supplier of
J.	About from these we also have tube and hitwise
- 1	Apart from these, we also have type and bituise operators. Bituise operators perform bit by bit operations
	of care of the control of the contro
	on numbers
do III	7 + 8 = 15 -> Result lange and which
	Coperator
3410	Comm. 4. 1. Co. 11
	Comments in Java Script
	Sometimes we want our programs to contain a
	text which is not executed by the IS Engine
	6 1 a latin Addition of the state of the sta
	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

	Chapter 2 - Practice Set
1	Use logical operators to find whether the age of a person lies between 10 and 20?
2	Demonstrate the use of switch case statements in JavaScript
	Write a Java Script program to find whether a number is Divisible by 2 and 3.
	Write a JavaScrift program to find whether a number is Divisible by either 2 or 3.
6	Print " you can prive" or "You cannot prive" based an age being oxenter than 18 young
	Print "You can Prive" or "You cannot Prive" based on age being greater than 18 using ternary operator.
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