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Chapter 12 - 1	dvanced	Javascript
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There are some JavaScript concepts which make the life of a developer extremely simple. We will discuss some of those in this Chapter

11FE is a JavaScript function that runs as soon as it is defined.

(function () }

⇒ 11FE Syntax

3) (); . m (m)

It is used to avoid polluting the ightal namespace, execute an async-await, ex.

Destructuring assignment is used to unpack values from an array, or properties from objects, into distinct variables

[et [a,y] = [7, 20]

2 will be assigned 7 and y, 20

[10, 2, ... rest] = [10, 80, 7, 11, 21, 88]

2 will be 80 rest will be [7, 11, 21,88]

Similarly we can destructure objects on the left hand side of the assignment
land side of the assignment
hana sour of pre-
(1) 1 Soil 1:27
Const Obj = $\{a:1, b:2\}$ const $\{a,b\} = obj;$
$const \{a,b\} = obj;$
adakt into d
Some more examples can be found on MDN docs.
tet & react broad block level State relief of
Spread Syntax
Spread System allows an iterable such as an array
Spread Syntax allows an iterable such as an array or String to be expanded in places where Zero or more arguments are expected. In an object literal, the spread syntax enumerates the properties of an object and adds the key-value pairs to the object being created.
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Ot I wigumens were expected. In our organistic
rileral, The spread syntax enumerales The properties
of an object and sadds the key-value pairs to
the object being created.
trample: time and a mintime amount interest
become local to the hunchian
Const var = [1, 7, 11] Const oby = $\{0.00000000000000000000000000000000000$
cont plus - 5 0xx3. 1/5 0:1 1:7 2:118
(01st Org - 2 000 (00 ) 11 2 0 0 )
Moskins
White I I I a 2177 It of eviler additional
Console log (Sum ( nums)) // 10
Console log (Sum ( nums))
MON desc
Other examples can be found on MDN docs
with my to be supplied to the man destances
Quick Quiz: Output of the following??  Const a = "the" b = "no"  Const c = 2 a, b 3  Console log (c)
Const a = "the" b = "no"
const c = 5 a b 3
Comple los (C)
Consult fry ( c)

JavaScript has three types of scopes: 17 Block Scope 2> Function Scope 3> Global Scope let & const provide block level Scope which means that the variables declared inside a & 3 3 cannot be accessed from outside the block let a = 27; dans harry 11 a is not available here Variable declared within a JavaScript function, become local to the function A variable declared outside a function, becomes global Hoisting Appears to move the dicharations to the top of the Code before execution Variables can thus be referenced before they are declared in JavaScript

	hello ("Harry")
	function hello (name) { => Works!
	Important Note: JavaScript only hoists declarations not initializations. The variable will be undefined until the line where its initialized is reached.
	Hoisting with let and var With let and var hoisting is different
	(onsole log (num) → Error if let or const let num = 6; with var undefined is printed
	function capressions and class expressions are not hoisted
/ /	