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Day 10

	Dotastructure: -
	jourscript is limited in type of data structure
	available compared to other programming language
5	Some of the most common are i) Objects
	2) Arroys
	3) maps
	g Sets.
10	JObjects - It is unaffered noniterable collection of
	key value pairs and we use objects when we read
	to store and later occess a value under a kon
	to store and later access a value under a key
	Conct Cox = S
45	$Const Cor = \begin{cases} 10000000000000000000000000000000000$
15	owner: 'ABC',
	Color: 'red',
	engine On: Function () c
	Consoledon ('engine is on').
20	engineOn: function() {  Consoleolog ('engine is on');
20	7
	2) Array - This on ordered iterable collection of
	Je use conque when we need to store a
	Volues he are oriogs when we here to store and
25	2) Array - It is an ordered iterable collection of values. We use arrays when we need to store and later access a value under an index.  length
	7 1 0
_	Element 1 4 + 1 3 9
_	0 1 2 3 4
_	,
30	

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,	(onst grades = [75,35,30,85,80,85]; let gradeSum = 0;
	let gradeSum = 0;
5	for (int i = 0; ic grades.length; i+t) {  gradeSum t = grades(i);  3
	Console log (grade Sum/grades length) // outputs 8s
10	
18	3) Map - It consists of key value pairs.  With maps any value can be used as a key while in object keys can only be string or symbol
	Key-value pair> Hash function> Hash table
20	4) Set - This is collection where each item in a collection must be unique.  If we try to add a non-unique item to se this operation will simply not be run.
25	Const housel= 'red'  const house = 'blue'  const house 3 = 'red'
30	const houses = new set() house.add (house).add (houses)
,	Console·log (houses) => Set(2) {'red', 'blue'}

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	OH as All I		
	Other data structures:		
	Davenes		
	2) Linked list	1	
	3) Trees		
	4) Grophs		
	0 0 7 700		
¥	Spread Operator The Line		
	to come his the Shortest and Sin	oplest meth	10
	Spread Operator - It is the shortest and sin to copy the proporties of an object onto a r created object	really	
	created object	U	_
	- Spread operator is characterized by  The spread operator allows us to pass  elements into a function without having to  all individually.	three dots.	
	The spread operator allows us to pass	of orray	
	Clements into a function without having to	type them	
1	15 all individually.		
	- The syntax is clear i concise and ear		
		5)	
¥	Rock Operator :- It the sixed to uneach	a box.	
	- Rest Operator :- It to is used to unpack - The rest operator on the other	hand is	
	used to build a smaller box and pack it	ans into i	1.
2	20 Used to build asmalled box one fuck it	eles il oso	
	- The rest operator allows us to F	are rens	
	- The rest operator allows us to t from an array and use them to create a	Seprare	
	Sub-orray.	1	1
	Sub-omay.  - Rest parameter must be the la 25 in the Function definition.	as parame	106
2	in the function definition.		
30	30		
		The same of the sa	

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¥	Javascript module- Javascript modules are standatione units of code that you can reuse again and again
5	Common Js is designed to specify how modules should work outside of the browser environment.  It is mostly used on server side javoscript namely node is a downside of common Js is the browsers don't understand its syntax. That is certain keywords that Common is relies an such as require and module experts don't work as expected in browsers.
	Dom (document object model) - The framework a  browser uses to read and store a webpage.  Javascript Dom Manipulation:  The Dom allows to change propertie  of objects on a webpage.  It gives developers power in how they  can manipulate and update webpage. The Dom  is in the form of javascript object with nested object  for different parts of the page. These objects have  nested objects of their own until the entire HI  file is mapped out in what looks like a tree
	30
	Dom Tree Structure

The Dom is the model of the HTML file soved as a javascript object in our browser's memory.

The browser automatically builds the Dom for every webpage that it downloads.

Javascript selectors. 
Javascript selectors work with the document

abject which we can access by typing the keyword

document. This returns the webpage stored in

browser's memory known as the document object

model or Dom.

There is similarly homed javascript selectors that allows us to get all the matches from a web page. It is the guery selector all method, to demostrate this we need to type document-guery selector.

- get Element By ID which can used to find objects in the that match a specified html ID attributes.
- get Element By Class Name returns an element 5 based on a specified class name rather than ID.

To javoscript the button click and the cong icon top are examples of user triggered events.

Events are happening all the time.

events is known as event handler.

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5	woys to set up an event listener for HTML elements  - Add event listener method.  - document gueryselector and then a name of element inside of the parenthes  2) - HTML event attributes  - attribute by onclick and followed by
1	Function name  Javascript Object Notation - Json
15	-Object keys and its values are double quoted strings in the JSON syntax.  - It is important to remember that whe plain javascript objects can hold functions, JSON
20	strings connot:  - Valid JSON doesn't allow the use of jovascript comments:  - Also when we stringify a javascript object containing a method that method will be excluded from the stringify operation
25	
30	