IT SNP

WELCOME TO 10 DAYS WEB DEVELOPMENT WORKSHOP

COVERS HTML, CSS AND BASIC JS

#DAY8

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DAY 8 AGENDA

JAVASCRIPT

objects (creating object, object literal, creating instance of object, object constructor, method in js object, Array (array literal, new keyword, array constructor, methods {concat, every, filter, find, findIndex, forEach, includes, indexOf, join, map, reduce, reverse, pop, push, shift, unshift, slice, sort, splice, toString, toLocaleString}).

js object

- js object is a data type in JavaScript
- It contains properties and methods
- values in objects are represented as key:value pairs

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CREATING OBJECTS

1. object literal
2. creating instance of Object
3. using an object constructor

OBJECT LITERAL

we can create objects using object literal

SYNTAX

```
object = {
    property1:value1,
    property2:value2,
    method: function() {
        return something;
    }
}
```

CREATING INSTANCE OF OBJECT

we can create instance of an object using new keyword as shown below

SYNTAX

```
var objectname=new Object();
```

USING OBJECT CONSTRUCTOR

we can create object using object constructor

SYNTAX

```
function obj(p1, p2, p3){
this.p1=p1;
this.p2=p2;
this.p3=p3;
}
obj1=new obj(value1,value2, value3);
```

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METHOD IN OBJECT

we can create methods in object

SYNTAX

```
const obj = {
    p1: val1,
    p2: function() {
        return something;
    }
}
```

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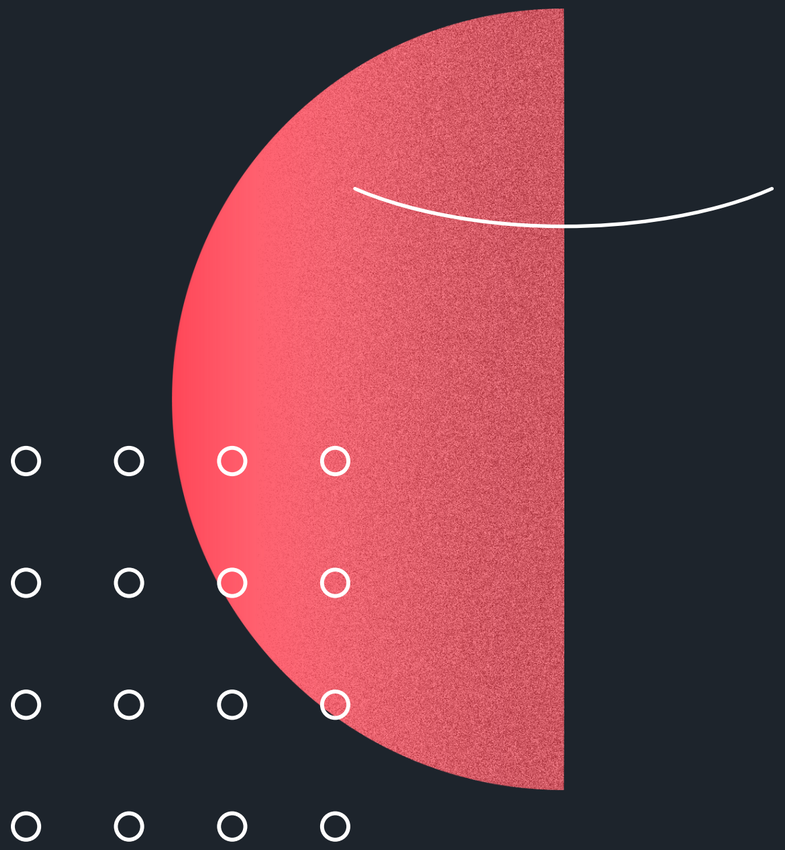

Array

Array is an object which collects data

CREATING ARRAYS

1. Array literal
2. creating instance of Array
3. using an array constructor

ARRAY LITERAL

we can create arrays using array literal

SYNTAX

```
let array = [val1, val2, val3];
```

CREATING INSTANCE OF AN ARRAY

we can create instance of an array using new keyword as shown below

SYNTAX

```
let arr = new Array();
```

USING ARRAY CONSTRUCTOR

we can create array using array constructor

SYNTAX

```
let arr = new Array(val1, val2, val3);
```

SOME ARRAY METHODS

- concat: returns a merged array
- filter: filters and extracts the element that satisfies condition
- forEach: calls the specified function once for each array element
- includes: checks whether array contains specified element or not
- indexOf: searches the element and returns it's index
- reverse: reverse the order of elements
- sort: sorts the element of an array
- toString: converts elements to string without affecting the array
- push: add element at the last
- pop: remove element from the last
- shift: removes element from the start
- unshift: adds element at the start

Assignment

create an array of objects that consists of users name, age, favorite subject, and gender and create a new array of those whose favorite subject is math, create a new array of those who are greater than 20.

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THANK YOU!

DAY 8 WAS AWESOME HAVING YOU!
HOPE WE GAVE THE BEST

DAY 8 OVER