

# Task 1

- Create an Array

Create an array named numbers containing the numbers: 10, 20, 30, 40, 50.

1) Print the array to the console.

2) Print the first and last elements of the array.

- Modify an Array

1) Add the number 60 to the end of the numbers array.

2) Remove the first element from the array.

3) Add the number 25 between 20 and 30.

4) Print the modified array.

# Task 2

- Find the Maximum Number in the array array

Create an array of numbers and get the largest number without using any function.

Example:

```
let arr = [10, 50, 40, 30, 20]; // Output: 50
```

# Task 3

- Sum All Numbers

Create an array of numbers and get the sum of all the numbers in the array.

Example:

```
let arr = [10, 20, 30, 40, 50]; // Output: 150
```

- Filter Even Numbers

Create an array of numbers and print an array containing only the even numbers.

Example:

```
let arr =[10, 15, 20, 25, 30]; // Output: [10, 20, 30]
```

# Task 4

Count Numbers Greater than 25

Create an array of numbers and get how many numbers in the array are greater than 25.

Example:

```
let arr = [10, 20, 30, 40, 50]; // Output: 3
```

Use for .. of loop

# Task 5

You have a long text taken from user and take also specific word from user, you need to

search that word exists in the text or not , if exists, alert the user it exists with this position and if doesn't exist alert him it doesn't exist.

**Note:** want to remove any extra whitespace in the string or searching word.

# Task 6

- Apply the functionality of `arr.indexOf(element)` function but want to return all positions of the element.

- Example:

```
let arr = [10,80,60,15,10,3, 6,10]; // Output: position at [0, 4,7 ]
```

# Task 7 *Bonus*

- Remove Duplicates

Write a function `removeDuplicates` that takes an array as input and returns a new array with duplicate values removed.

Example:

```
let arr = [10, 20, 30, 20, 10, 40]; // Output: [10,20,30,40]
```

- Given two variable `let x = 10; let y = 20;` swap their values without using extra variable.
- Write code for generating random password consist of 12 characters, the characters can be number or letter or symbol.