

Nada Radwan Taha Ali

20191593

Java Quiz

Question1 :

1- How do you add an element at the beginning of an array? How do you add one at the end?

unshift() method: To add new elements or values at the beginning of an array.

push() method : Adds the elements at the end of an array.

Another way by adding element in the array: `var arr = [20,30,40,50];`

`arr = [10, 20,30,40,50,60];`

2- Swap 2 integers present in variables num1 and num2 without using temporary variable

```
var f = 10;
var s = 6;
[f, s] = [s, f];
```

3- Write a code to iterate over a string

```
const str = "Hello World!";
const chars = [...str];
chars.forEach((c, i) => console.log(c, i));
```

Question 2 :

1 – string

2- 42

11

36

17

3- Hello World

10

4- 0

false

11

5- Reference Error

6-undefined

Object

[5,0,1,2,3,4]

Apple

7- {x: 1}

8- fiat

undefined

kia

undefined

volvo

undefined

mercedes

undefined

Question 3:

1-

```
const arr=[2,5,3,6,7];
arr.push(12);
arr.unshift(28);
arr.unshift(8);
arr.push(80);
arr.pop();
arr.shift();
console.log(arr);
```

2-

```
var obj = {
  a: 1,
  b: 2
};
const arr = Object.entries(obj);

console.log(arr);
```

3-calculator

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>calculator</title>
</head>
<body>
  <script src="task.js"></script>
  <form>
    First Number: <input type="text" id="Fnum"><br>
    Second Number: <input type="text" id="Snum"><br>
    <input type="button" onclick="add()" value="Add">
    <input type="button" onclick="sub()" value="subtract">
    <input type="button" onclick="mul()" value="Multiply">
    <input type="button" onclick="div()" value="Divide">
  </form>
  <p>The Result is : <br>
    <span id = "result"></span>
  </p>
</body>
</html>
```

task.js

```
function add()
{
  num1 = document.getElementById("Fnum").value;
  x1=parseInt(num1);
  num2 = document.getElementById("Snum").value;
  x2=parseInt(num2);
  document.getElementById("result").innerHTML = x1 + x2;
}

function sub()
{
  num1 = document.getElementById("Fnum").value;
  x1=parseInt(num1);
  num2 = document.getElementById("Snum").value;
  x2=parseInt(num2);
  document.getElementById("result").innerHTML = x1 - x2;
}
```

```

function mul()
{
    num1 = document.getElementById("Fnum").value;
    num2 = document.getElementById("Snum").value;
    document.getElementById("result").innerHTML = num1 * num2;
}

function div()
{
    num1 = document.getElementById("Fnum").value;
    num2 = document.getElementById("Snum").value;
    document.getElementById("result").innerHTML = num1 / num2;
}

```

4-

```

const arr=[13,5,3,66,7];
const minimum = Math.min(...arr);
const index = arr.indexOf(minimum);
console.log(minimum);
console.log(index);

```

5-

```

//using recursion
let x = prompt("Please enter any number : ");

    function fact(n)
    {   if(n<=0) return 1;
        else
            return n*fact(n-1)
    }

console.log(fact(x))

```

```

//using loop
let x = prompt("Please enter any number : ");
let num = parseInt(x);
for(let i=num-1;i>0;i--)
{
    num*=i;
}

```

```
console.log(num)
```

6-

```
function obj() {  
  let a = 1,  
      b = 2;  
  return {  
    'value of a is : ': a,  
    'value of b is : ': b  
  };  
}  
console.log(obj() );
```