JS BASICS EXAM

Question1 : Answer The Following Questions ?

1.

➢ By using unshift () and concat.

➢ by using push () and split the array and add the first part to the end

2.

```
let num1 = 10, num2 = 5;
 num1 = num1 + num2;
 num2 = num1 - num2;
 num1 = num1 -num2;
 console.log("Num1"+" "+num1+" "+"Num2"+" "+ num2)
```

3.

```
let string = "Mennat-allah Mohamed";

    for (let i = 0; i < string.length; i++) {
    document.write(string.charAt(i));
    }
```

1. String
2. 42
    11
    36
    17
3. hello world
    10
4. 0
    False
    11
5. i not defined
6. Undefined
    Object
    ,,,,,5,0,1,2,3,4
    apple
7. Undefined
8. Fiat kia Volvo Mercedes
    Undefined

WRITE JS CODE TO SOLVE THESE PROBLEMS

1. :

```js
let arr = [1,2,3, 4];
arr.push(5, 6);
arr.unshift(0);
console.log(arr)
```

2.

```js
function convert()
{
 con = {
a:1,b:2
}

co=[]
keylenght=Object.keys(con).lenght
for(let i=0;i<keylenght;i++)
{
    length=[]
    length.push(Object.keys(con)[i]);
    length.push(Object.values(con)[i]);
    co.push(length)

}console.log(con)
}
convert()
```

3.

```javascript
let FirstNumber=parseFloat(prompt("FirstNumber"))
let operator=prompt("+,-,/,*")
let SecondNumber=parseFloat(prompt("SecondNumber"))
let result;
switch(operator){
    case'+':
    result=FirstNumber+SecondNumber
    console.log(FirstNumber+SecondNumber)
    break;

    case'-':
    result=FirstNumber-SecondNumber
    console.log(FirstNumber-SecondNumber)
    break;

    case'/':
    result=FirstNumber/SecondNumber
    console.log(FirstNumber/SecondNumber)
    break;

    case'*':
    result=FirstNumber*SecondNumber
    console.log(FirstNumber*SecondNumber)
    break;

default:
console.log("Invalid")
break;
}
```

4.

```javascript
let arr = [90, 80, 60, 100, 1000];

let max = Math.max(...arr);

let index = arr.indexOf(max);
console.log(max);
```

5.

```javascript
let Number=(prompt("Enter the number"))
let Factorial=1;
for(let i=1;i<=Number;i++)
{
Factorial=Factorial*i
}
console.log("Factorial is "+ " "+ Factorial)




function factorial(n) {
  if (n == 0||n==1) {
    return 1;
  }
  else{
    return n * factorial(n - 1);
  }
}
let num = (prompt("Enter the number"));
console.log("Factorial is " + factorial(num));
```

6.

```javascript
function getNames() {
    let firstName = 'Mennat-allah',
        lastName = 'Mohamed';

  console.log(firstName+lastName)
}
getNames()
```