

```
/* What is Destructuring in Javascript? Explain in terms of Array and
Object with Practical implementations?
  Answer:- Use to extract the data from an Array.We can do the same with
Objects as well.
```

```
*/
export{};
var x,y;
[x,y]=[10,20,45,67,89,90];
console.log(x);

console.log(y);

let obj1={
  name:'Harsh',
  age:18,
  Degree:'B.Tech'
};
let{name}=obj1;
let{age}=obj1;
console.log(name);
console.log(age);
```

```
/*What is the difference between forEach() and map()? Explain with
suitable Example?
  Answer:- We can't return anything using forEach() method,but using map()
helper
           we can return a new array by applying function on each element.
```

```
*/

/* forEach()*/
export{};
let students=["harsh","shivam","shubhi","manshi","sakshi"];
students.forEach(display);
function display(item)
{
  console.log(item);
}

/* map() */

let num=[1,2,3,4,5,6,7,8];
num=num.map((items)=>
```

```
{
    return items*100;
});
console.log(num);
```

/*What is Arrow Function? How it is different from function Explain with suitable Examples??
 Answer:-The working of Arrow function is same as 'function' but it is compact than normal function.

```
*/
/* Arrow Function(=>)*/

export{};
let array=[2,4,6,8,10];
array=array.map((items)=>
{
    return items*2;
});
console.log(array);

let numbers=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17];
let result=numbers.filter((ele)=>ele%3!==0);
console.log(result);
```

/*What is spread operator ? Why we use spread operator? Explain with practical implementation?
 Answer:-The spread Operator is used when we have numbers of item available in the array and we want to destruct them.
 It is denoted by (...).

```
*/
/*Spread Operator */
var a,b,next;
[a,b,...next]=[1,2,3,4,5,6,7,8,9,10];
console.log(a);
console.log(b);
console.log(...next);
```

```
/*Example 2 */
var a,b,restof;
[a,b,...restof]=["mango","harsh","done","apple","banana","pineapple"];
console.log(a);
console.log(b);
console.log(...restof);
```

/* . Difference between Function and Constructor ? Explain with Example?

Answer:-We use Function to perform any particular task but we use Constructor to initialize variables and objects.

```
*/
/* Function */
function sub(a:number,b:number){
    return b-a;
}
let result:number=sub(5,8);
console.log(result);
```

```
/*Constructor */
export{};
class a{
    n1:number;
    constructor(){
        this.n1=100;
    }
    show(){
        console.log(this.n1);
    }
    add(){
        this.n1=this.n1+100;
    }
}
class b extends a{
    sub(){
        this.n1=this.n1-50;
```

```

    }
}
let obj=new b;
obj.show();
obj.add();
obj.show();

```

/*Can we use Interface in Typescript?If yes,then Why? And Create a suitable code with Explanation?

Answer:- Yes, we can use Interface in Typescript.

We use interface to implements in a class.Interface's functions have empty body.

that body will be defined in the class.

```

*/
/* Interface*/

export{};
interface details{
    add(a:number,b:number);
}
class A implements details{
    add(a:number,b:number) {
        return a+b;
    }
}
let obj=new A;
let result:number=obj.add(5,8);
console.log(result);

```

/*What is React Js? Create React App and make Gallery Page?

Answer:-It is known to be a open source javascript library that is used to build the UI components.

React-JS is used to develop SPA(Single Page Application).It is designed as component based

and help responsible for view layer.

*/

