Basics for React

```
let keyword:-
```

O Var→ declaration gives functional Scope. (It can be declared after using Variable also)

Let → grives block scope (It is like variables declaration in c,c++,ek...)

should be used after declaration of variables

en: Var a=1;

var b=2;

if (a ===1) {

Var a=10;

vat b=20;

Console.log(a);

Console log(b);

console log(a);

Console log(b);

output:- 10 20

ale can declare But we cannot declare

Var c=1; let d=1; var c=2;

in same fun or block in same block

Const keyword:

* Behaves same as let, but the assigned value cannot be changed in the same scope.

* Const keyword down used for constants.

* The constant should be initialize while declaring only.

en:- const $\alpha=10$; \sim const α ; $\alpha=10$; \times

Arrow functions:

Var getRegvalue = function()?

Veturn 10;

Console. log (getRegvalue());

Output

10

Now anow functions

1. const get Anowvalue = () => {

Veturn 10;

Veturn 10;

Amowfunctions format)

2. Const get Amowvalue = () => 10;

console.log (get Amowvalue()); //10 /* We can remove return of

curly braces for one statement

if ik a seturn */

/ Market some present remove

console.log (get Anowvalue (2)); //20 /* For single argument no need parathuss +/

Default Parameters:

en:- let getValue = function (value = 10) {

console.log (value);

y;

getValue (); // 10

getValue (20); // 20

/ without default parameter

It gives undefined ess
output the won't call fun
without arguments */

```
also do as below.
```

let getvalue = function (value = 10, bonus = value * 0.1) { consoleolog (value + bonus);

પુ ;

Trule can also replace 0.1 with a Variable #/ cor) function calling also

Mole:-

Consoleolog (arguments.length); gaves no of arguments passed to a function.

arguements as (value=bonus*10, bonus=1) 98 not IA above example Possible.

Rest operator:

EN:- 11+ displayColors = function(){

for (let 1 in arguments) {

console log larguments [13);

display(olors ('Red'); // Red. display (olors ('Red', 'Blue'); // Red .

En: let duplay (olors = function() {

for (let 9 90 arguments) =

console.log (argumentscis);

let Message = "ya";

displayloiors (Mexage, 'Red');

/* ya Red */

display Colors (Message, 'Red',

'Blue!);

Red */

* Above are written to understand arguments Array (default Array).

```
the problem is:
                displayColors = function(){
          let
                    Console. lug (Message):
                   for (let i in arguments) {
                          Console.log(arguments[:]);
              let message = "ya";
          display Colors (message, 'Red'); / ya
                                             Red #/
           display Colors (message, 'Red', 'Blue'); / b ya
                                                   Blue #/
+ To solve that Repetation
                                use
                                     rest operator (···) :-
                             let displayColori = function (message, ... colors) {
     Now program is:-
                                    console.log(message);
                                      for (let i in colors) ¿
                                              Console , log (610rs [13);
                                 let message = "ya";
                                 display Colors (message, 'Red'); /* ya
Red */
                                 displayColors (mexage, 'Red', Blue'); /* ya
                                                                        Blue #/
           19st of arguments are converted in to and array (here colors)
```

* There we come to know that rut operator takes variable no of parameters.

```
Spread operator:
```

```
3
```

```
* It is opposite to vest operator.
```

* It is used to split away into individual items.

* spread is used oit calling a function, rest operator is used oit defining a function.

En! -

let displaycolors = function (message, ...colors) & prese ... is rest operator.

console. log (message);

for (let in colors) {.

console. log (colors [;3);

y

ļ

let message = "11st of colors";

let color-Array = ['Orange', 'Yellew', 'Indigo'];

display Colors (message, ... color Away); // hore ... spread operator.

OUTPUT :-

list of colors

orange

YEllow

Indigo

Object likerals:

1) let firstname = 'OK';

let lastname = boss',

let person = &

forstname: forstname,

Intrame: lastname,

Intrame: lastname,

lastname: lastname

};

instead of writing as above we can write as

```
let person = 2
               firstname,
               lastname
                                  Inbecause value name & variable name) & key
            1:
                                        nume are same #/
         console.log (person.firstname); / ok
         Console · log (person · lastname): // boss ..
1
                 create Person (firstname, lastrame, age) {
              let full name = first name + " + last name;
               return
                          forstname,
                                                                I * no need lay and value
                           lostname,
                                                                   pair, because variable and
                           fullname,
                                                                   by names are same + /
                            issenior: function () {
                                                                Pranigning fun to key 30
                                       return age >60;
                                                                   name of fun 73 key name
                                                                /* returning a object */
            let p = creak person ("ok", "boss", 40);
                                                                1 + 1+ also works with
             console.log (p. firstname);
                                                                   arrow fun in return
                                           11 ok
                                                                    Statement and also
             console. log (p.lastname);
                                           11 poss
                                                                      is Senior () }
             console. log (P. full name);
                                           11 ok boss
                                                                         return age >60;
                                           // foilse.
              console. log (p. issenior());
                                                                          can work,
(3)
      let In = "kanta";
       let person = {
             "mani": "fistname";
               [10]: "lastname".
        y;
                                       ¿man: "firstname", I canta: "lastname" }
       console. log (person);
       Consult. log ( Person ( man: 1); // frut name
```

destructuring arrays:

- 1et employee = ["abe", "nyz", "male"];
 1et [finame, Iname, gender] = employee;
 console.log(finame); // abe
 console.log(finame); // myz
 console.log(gender); // maile.
 - 2 let employee = ["abc", "ryz"];
 a) let [fname, Iname, gender = "morre"] = employee;
 console.log(gender); //morre.
 - b) let [frame, Iname, gender] = employee; console. log (gender); //undefined.
 - (3) let employee = ["abc", "mys", "male"];
 - a) let [, , gender] = employee; // Here we need only gender so,...
 console.log(gender) // male
 - b) let [fficime, ... elements] = employee;

 console.log(frame) //abc.

 console.log(elements) // ["mys", "male"]

destructuring objects:

property name (ky name) and variable name must be same.

en:- let info = {

fname : "mani",

Iname : "kanta

```
let frame, Iname } = employee:
                            // mani
      Console.log (frame);
      Console log (Iname);
                         // Kanta.
         (or)
     use alias for variable names.
       let (frame :f, Iname : 1 } = employee ;
          Console-tog(f); //man;
          console.log(1); // leanta.
Shang Templakes:-
     let user = "Chandler";
      let greet = "welcome" + user + sir";
       let greet = "welcome & {usen} sir"; /* ' backtick is used */
        console. log (greet); // welcome chandler six.
      Multiple: lines
         let greet = welcome six to
```

our show ;

our show

console.log(greet); // welcome sir to