**Javascript ES6 feature review**

**Also available at (https://www.udemy.com/course/react-the-complete-guide-incl-redux/learn/lecture/8199180#questions)**

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| Variable   1. define let vs const, let a = 123, const a = 6   Date: date = new Date(2021, 5, 12)  Year =>date.getFullYear() => 2021  Month =>date.toLocaleString(‘us-AU’,{month:’long’}) => May  Day => date.toLocaleString(‘us-AU’,{day:2-digit}) => 12 |
| Function   1. arrow function ( ) => {}, add = (a,b) => {return a+b}   Good:   * do not use function keyword again * ‘this’ keyword clear   Arr= [1,2,3,4,7,5,6]  String function API  Array function API  Map() =>  Find() =>  FindIndex() =>  Filter() =>  Reduce() =>  Slice() => get from a to b => arr.slice(0,3) => [0,1,2] head no tail  Splice() =>  Concat() => |
| Operator  ... => array,object addition, copy an array or object  l = [1,2,3], new\_l = [...l,456] => [1,2,3,4,5,6]  Obj = {name:’Sam’}, newObj = {...Obj, age:10} => {name:’Sam’, age:10}  New\_l = [...l]  ... => make other data type as array  (1,2,3) => ...arg = > [1,2,3]  Rest = (a,b,...c)=>{print(a,b,c)}  Arg = [1,2,3,4,5,6]  Rest(arg) => a=1, b= 2 c = [3,4,5,6]  !only one ... in the expression  Destructing=> extract element from array and store in a new variable  [a,b] = [1,2] a=1 b=2  => extract property from object  {name} = {name:’Sam’, age=12} name= Sam |
| Library   1. import, export   Child.js  Only export one object => export default objName  Const person = {name: ‘max’, age:12} export default person  Export multiple things  Export const fun1() => {}  Export const var1 = 3  Parent.js  Import person from ./Child.js => use person object in Parent.js  Import {var1} from ./Child.js  Import {fun1} from ./Child.js  Import \* as child from ./Child.js => get all thing from child.js |
| Classes => property + method = blueprint of an object  Class Person {  Constructor(){  This.name = ‘Sam’  }  Speak = () =>{console.log(‘hi’)}  }  Inheritance of class  Class A extends B {object crated by A have B’s property and methods}  ! If both class A and B have the constructor  We should add super() in child( here is B) class to make sure B can access A’s property  ES 7 define property and method  Class A {  ! Do not use constructor  name = ‘Sam’  Speak = () => {...}} |