25 June Js tasks

// 1.Write a function that takes an array of objects as an

// argument and returns an array of the keys of each object using for...in iteration.

// Input: [{ a: 1, b: 2 }, { c: 3, d: 4 }, { e: 5, f: 6 }]

// Output: [["a", "b"], ["c", "d"], ["e", "f"]]

const obj= [{ a: 1, b: 2 }, { c: 3, d: 4 }, { e: 5, f: 6 }];

let x= obj.map(item => Object.keys(item));

console.log(x);

Output:- [ [ 'a', 'b' ], [ 'c', 'd' ], [ 'e', 'f' ] ]

// 2.Write a function that takes an array of objects as an

// argument and returns an array of the values of each object using for...in iteration.

// Input: [{ a: 1, b: 2 }, { c: 3, d: 4 }, { e: 5, f: 6 }]

// Output: [[1, 2], [3, 4], [5, 6]]

const obj= [{ a: 1, b: 2 }, { c: 3, d: 4 }, { e: 5, f: 6 }];

let x= obj.map(item=> Object.values(item));

console.log(x);

Output:- [[1, 2], [3, 4], [5, 6]]

// 3.Write a function that takes an array of objects as an argument

// and returns a new array with only the objects that have a specific

// property using for...in iteration.

// Input: [{ a: 1 }, { b: 2 }, { a: 3, b: 4}], "a"

// Output: [{ a: 1 }, { a: 3, b: 4 }]

const Array = [{ a: 1 }, { b: 2 }, { a: 3, b: 4 }];

const a = "a";

for (let i = 0; i < Array.length; i++) {

  let obj = Array[i];

  for (let key in obj) {

    if (key === a) {

      console.log(obj);

      break;

    }

  }

}

Output:- { a: 1 } { a: 3, b: 4 }

// 4.Write a function that takes an array of objects as an

// argument and returns a new array with the objects sorted by a specific property

// using for...in iteration.

// Input: [{ a: 2 }, { a: 1 }, { a: 3 }], "a"

// Output: [{ a: 1 }, { a: 2 }, { a: 3 }]

const Array = [{ a: 2 }, { a: 1 }, { a: 3 }];

const a = "a";

Array.sort((a, b) => a[a] - b[a]);

console.log(Array);

Output:- [ { a: 2 }, { a: 1 }, { a: 3 } ]

// 5.Write a function that takes an array of objects as an argument and

// returns a new object with the properties from all the objects in the array

// using for...in iteration.

// Input: [{ a: 1 }, { b: 2 }, { c: 3 }]

// Output: { a: 1, b: 2, c: 3 }

const objArray = [{ a: 1 }, { b: 2 }, { c: 3 }];

let result = {};

for (let obj of objArray) {

  for (let key in obj) {

    result[key] = obj[key];

  }

}

console.log(result);

Output:- { a: 1, b: 2, c: 3 }