*// Q.1 JAVASCRIPT QUESTION ...*

const userlist = [

    "Abhishek",

    "Mithun",

    "Ganesh",

    "Rahul",

    "Saurabh",

];

function checkuser(*user*){

    if(userlist.includes(*user*)){

        console.log(`Yes, ${*user*} is a valid user.`);

    }

    else{

        console.log(`No, ${*user*} is not a valid user`);

    }

}

checkuser("Mithun");

checkuser("Someone");

*// Q.2 JAVASCRIPT QUESTION ...*

function calculatevalue(){

    let sum = 0;

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

        sum += arguments[i];

    }

    console.log(`The total sum of product price ${sum}`);

}

calculatevalue(125, 20, 30);

*// Q.3 JAVASCRIPT QUESTION ...*

const students = [

    {name: "Mithun", marks: 95,},

    {name: "Prabir", marks: 75,},

    {name: "Alka", marks: 92,},

    {name: "Shivam", marks: 70,},

    {name: "Farman", marks: 99,},

];

const checkResult = (*name*) =>{

    for(let student of students){

        if(student.name === *name*){

            return student.marks > 90 ? console.log(`Congratulation ${student.name}! You have cleared the exam`):console.log(`Sorry ! You have not cleared the exam`);

        }

    }

    console.log(`Invalid User`);

};

checkResult("Mithun");

checkResult("Prabir");

checkResult("Mithun 5");

*// Q.4 JAVASCRIPT QUESTION ...*

const products = [

    { name: "Laptop", price: 120000 },

    { name: "Mobile", price: 70000 },

    { name: "Laptop Bag", price: 20000 },

    { name: "Watch", price: 20000 },

    { name: "Mobile Charger", price: 1500 },

];

let maxProduct  = { name: "", price: 0 };

let minProduct = { name: "", price: Number.MAX\_VALUE };

for (let product of products) {

    if (product.price > maxProduct.price) {

        maxProduct = product;

    }

    if (product.price < minProduct.price) {

        minProduct = product;

    }

}

console.log(`The product with maximum ammount is ${maxProduct.name} which is priced at Rs. ${maxProduct.price}`);

console.log(`The product with minimum ammount is ${minProduct.name} which is priced at Rs. ${minProduct.price}`);

*// Q.5 JAVASCRIPT QUESTION ...*

const guests = ["Anurag","Mithun","Alka","Prabir","Shivam","Farman"];

console.log(guests.join(", "));

*// Q.6 JAVASCRIPT QUESTION ...*

const productDetails = {

    name: "Apple 2020 MacBook Air Laptop",

    price: 82000,

    color: "Gray",

    harddisk: "256 GB",

}

console.log("Below are the product details.");

for (let keys of Object.keys(productDetails)) {

    console.log(`${keys} : ${productDetails[keys]}`);

}

*// Q.7 JAVASCRIPT QUESTION ...*

function generateOTP(){

    const min = 1000;

    const max = 9999;

    const otp = Math.floor(Math.random() \* (max - min+1)) +min;

    return otp.toString();

}

console.log(`Here Your OTP : ${generateOTP()}`);

*// Q.8 JAVASCRIPT QUESTION ...*

function calculateRemainingDays(*eventDate*) {

    const currentDate = new Date();

    const eventDateTime = new Date(*eventDate*);

    const timeDifference = eventDateTime - currentDate;

    const daysRemaining = Math.ceil(timeDifference / (1000 \* 60 \* 60 \* 24));

    return daysRemaining;

}

const eventDate = '2023-08-31'

console.log(calculateRemainingDays(eventDate));

*// Q.9 JAVASCRIPT QUESTION ...*

function uniqueCharacterCheck(*inputString*){

    const charSet = new Set();

    for(const char of *inputString*){

        if(charSet.has(char)){

            console.log("The input string contains duplicate");

            return false;

        }

        charSet.add(char);

    }

    console.log("The input string contains only unique character");

    return true;

}

uniqueCharacterCheck("Mithun");

uniqueCharacterCheck("anurag");

*// Q.10 JAVASCRIPT QUESTION ...*

function wordCounter(*sentence*) {

    const wordFrequencyMap = new Map();

    const words = *sentence*.split(/\s+/);

    for (word of words) {

        const cleanWord = word.toLowerCase().replace(',', '');

        if (cleanWord.length > 0) {

            wordFrequencyMap.set(cleanWord, (wordFrequencyMap.get(cleanWord) || 0) + 1);

        }

    }

    return wordFrequencyMap;

    const sentence = "please please submit your assignment on time, your assignments are important ";

    const result = wordCounter(*sentence*);

    console.log(result);

}