**Question no 1**

function findMax(num1, num2)

{

if (num1 > num2)

{

return num1; }

else

{ return num2;

}

}

**Question no 2**

function findMax(num1, num2, num3)

{

if (num1 >= num2 && num1 >= num3)

{

return num1;

}

else if (num2 >= num1 && num2 >= num3)

{

return num2;

} else

{ return num3; }

}

**Question no 3**

function checkNumber(num)

{

if (num > 0)

{

return "Positive";

}

else if (num < 0)

{

return "Negative";

}

else

{

return "Zero"; }

}

**Question no 4**

function checkDivisibility(num)

{

if (num % 5 === 0 && num % 11 === 0)

{

return `${num} is divisible by both 5 and 11.`; }

else

{ return `${num} is not divisible by both 5 and 11.`; }

}

**Question no 5**

function checkEvenOrOdd(num)

{

if (num % 2 === 0)

{ return `${num} is even.`; }

else { return `${num} is odd.`; }

}

**Question no 6**

function isLeapYear(year)

{ if ((year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0))

{

return `${year} is a leap year.`;

}

else

{ return `${year} is not a leap year.`; }

}

**Question no 7**

function checkVowelOrConsonant(alphabet)

{

if (lowerCaseAlphabet.length === 1)

{ return `${alphabet} is a vowel.`; }

else { return `${alphabet} is a consonant.`; } }

else { return "Please enter a single alphabet character."; } }

**Question no 8**

function checkCase(character) {

if (character.length === 1 && character.match(/[a-zA-Z]/)) {

if (character === character.toUpperCase()) {

return `${character} is an uppercase alphabet.`;

} else {

return `${character} is a lowercase alphabet.`;

}

} else {

return "Please enter a single alphabet character.";

}

}

**Question no 9**

function getWeekday(weekNumber) {

const weekdays = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];

if (weekNumber >= 1 && weekNumber <= 7) {

return `Weekday for week ${weekNumber} is ${weekdays[weekNumber - 1]}.`;

} else {

return "Invalid week number. Please enter a number between 1 and 7.";

}

}

**Question no 10**

function daysInMonth(month) {

if (month === 1 || month === 3 || month === 5 || month === 7 || month === 8 || month === 10 || month === 12) {

return 31;

} else if (month === 4 || month === 6 || month === 9 || month === 11) {

return 30;

} else if (month === 2) {

return 28; } else {

return "Invalid month number!"; }

}

**Question no 11**

function countNotes(amount) {

const denominations = [2000, 500, 200, 100, 50, 20, 10, 5, 2, 1];

const noteCount = {};

for (let denomination of denominations) {

const count = Math.floor(amount / denomination);

if (count > 0) {

noteCount[denomination] = count;

amount -= count \* denomination;

}

}

return noteCount;

}

**Question no 12**

function calculateGrade(physics, chemistry, biology, mathematics, computer) {

const totalMarks = physics + chemistry + biology + mathematics + computer;

const percentage = (totalMarks / 500) \* 100;

let grade;

if (percentage >= 90) {

grade = 'A';

} else if (percentage >= 80) {

grade = 'B';

} else if (percentage >= 70) {

grade = 'C';

} else if (percentage >= 60) {

grade = 'D';

} else if (percentage >= 40) {

grade = 'E';

} else {

grade = 'F';

}

return { percentage, grade };

}