**DIPAK PAUL**

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**1. Write a JavaScript conditional statement to sort three numbers. Display an alert box to show the result.**

**a. *Sample numbers* : 0, -1, 4**

**b. *Output* : 4, 0, -1**

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<p>

Write a JavaScript conditional statement to sort three numbers. Display an

alert box to show the result.<br>

a. Sample numbers : 0, -1, 4<br>

b. Output : 4, 0, -1

</p>

<script>

var x= 0;

var y=-1;

var z= 4;

if (x>y && x>z)

{

if (y>z)

{

console.log(x + ", " + y + ", " +z);

}

else

{

console.log(x + ", " + z + ", " +y);

}

}

else if (y>x && y >z)

{

if (x>z)

{

console.log(y + ", " + x + ", " +z);

}

else

{

console.log(y + ", " + z + ", " +x);

}

}

else if (z>x && z>y)

{

if (x>y)

{

console.log(z + ", " + x + ", " +y);

}

else

{

console.log(z + ", " + y + ", " +x);

}

}

</script>

<script>

function sorting(a,b,c){

var arry=[a,b,c];

var sor= arry.sort(function(a,b){

return b-a;

});

alert(sor);

}

sorting(8,-4,9);

</script>

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**2. Write a JavaScript for a loop that will iterate from n times. For each**

**iteration, it will check if the current number is odd, even or prime, and**

**display a message on the screen**

**a. "0 is even"**

**b. "1 is odd"**

**c. "2 is even and prime"**

**d. “3 is odd and prime”**

**e. “4 is even”**

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<script>

var z=8;

var t=0;

for (var x=0; x<=z; x++) {

if (x === 0) {

document.write(x + " is even");

}

else if (x % 2 === 0) {

document.write(x + " is even");

for(var i=1;i<=x;i++){

if(x%i==0){

t=t+1;

}

}

if(t==2){

document.write(" prime");

}

t=0;

}

else {

document.write(x + " is odd");

for(var i=1;i<=x;i++){

if(x%i==0){

t=t+1;

}

}

if(t==2){

document.write(" prime");

}

t=0;

}

document.write("<br>");

}

</script>

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**3. Write a JavaScript program to construct the following pattern, using a**

**nested for loop.**

**\* \* \* \* \***

**\* \* \* \***

**\* \* \***

**\* \***

**\***

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<script>

var z=6;

var t=0;

for (var x=z; x>0; x--) {

for(var y=0;y<x;y++){

document.write("\*");

}

document.write("<br>");

}

</script>

</body>

</html>

**4. Write a JavaScript function to hide email addresses to protect from**

**unauthorized user**

***Test Data* :**

**console.log(protect\_email("eddygrant@example.com"));**

**" eddy....@example.com "**

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<script>

protectEmail = function (email) {

var avg, splitted, part1, part2;

splitted = email.split("@");

part1 = splitted[0];

avg = part1.length / 2;

part1 = part1.substring(0, (part1.length - avg));

part2 = splitted[1];

return part1 + "...@" + part2;

};

document.write(protectEmail("eddygrant@example.com"));

</script>

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**5. Write a JavaScript function to capitalize the first letter of each word in a**

**string**

**console.log(capitalize\_Words('hi from skillsanta'));**

**"Hi From Skillsanta"**

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<script>

function capitalize\_Words(str)

{

str = str.split(" ");

for (var i = 0, x = str.length; i < x; i++) {

str[i] = str[i][0].toUpperCase() + str[i].substr(1);

}

return str.join(" ");

}

document.write(capitalize\_Words("hi from skillsanta"));

</script>

</body>

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**6. Write a JavaScript function to truncate a string to a certain number of**

**words.**

**Test Data :**

**console.log(truncate('The quick brown fox jumps over the lazy dog', 4));**

**Output :**

**"The quick brown fox"**

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<script>

function truncate(str, n) {

return str.split(" ").splice(0,n).join(" ");

}

document.write(truncate('The quick brown fox jumps over the lazy dog', 4));

</script>

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**7. Write a JavaScript function to find a word within a string.**

***Test Data* :**

**console.log(search\_word('The quick brown fox', 'fox'));**

**console.log(search\_word('aa, bb, cc, dd, aa', 'aa'));**

**Output :**

**"'fox' was found 1 times."**

**"'aa' was found 2 times."**

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<script>

function searchWord(text, word){

var x = 0, y=0;

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

if(text[i] == word[0]){

for(j=i;j< i+word.length;j++){

if(text[j]==word[j-i]){

y++;

}

if (y==word.length){

x++;

}

}

y=0;

}

}

return "'"+word+"' was found "+x+" times.";

}

document.write(searchWord('The quick brown fox', 'fox'));

document.write("<br>");

document.write(searchWord('aa, bb, cc, dd, aa', 'aa'));

</script>

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**8. Write a javascript function to print the Fibonacci series of n times.**

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<script>

var fibonacci\_series = function (n)

{

if (n===1){

return [0, 1];

}

else{

var s = fibonacci\_series(n - 1);

s.push(s[s.length - 1] + s[s.length - 2]);

return s;

}

};

document.write(fibonacci\_series(8));

</script>

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**9. The Temperature Converter**

**Create a function called Celsius to Fahrenheit:**

**● Store a Celsius temperature into a variable.**

**● Convert it to Fahrenheit and output "NN°C is NN°F".**

**Create a function called Fahrenheit to celsius:**

**● Now store a Fahrenheit temperature into a variable.**

**● Convert it to celsius and output "NN°F is NN°C."**

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<script>

var CelsiustoFahrenheit = function (n)

{

var f=parseFloat(((9\*n)/5)+32);

var f=n+"°F"+" is "+f+"°C";

return f;

};

var Fahrenheittocelsius = function (n1)

{

var c=parseFloat(((n1-32)\*5)/9);

var c=n1+"°C"+" is "+c+"°F";

return c;

};

document.write(Fahrenheittocelsius(98));

document.write("<br>");

document.write(CelsiustoFahrenheit(112));

</script>

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**10. Write a JavaScript function that takes a string which has lower and upper case letters as a parameter and converts upper case letters to lower case, and lower case letters to upper case.**

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<script>

swapcase = function swapcase(str) {

return str.replace(/([a-z]+)|([A-Z]+)/g, function(match, chr) {

return chr ? match.toUpperCase() : match.toLowerCase();

});

}

document.write(swapcase('sKillSantA'));

</script>

</body>

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-------------------X--------------------