1)Write a JavaScript program to find the area of a triangle where three sides are 5, 6, 7

Solution

**HTML Code:**

<!DOCTYPE html>

<html>

<head>

<meta charset=utf-8 />

<title>The area of a triangle</title>

</head>

<body>

</body>

</html>

**JavaScript Code:**

var side1 = 5;

var side2 = 6;

var side3 = 7;

var s = (side1 + side2 + side3)/2;

var area = Math.sqrt(s\*((s-side1)\*(s-side2)\*(s-side3)));

console.log(area);

2. Write a JavaScript program to check whether a given positive number is a multiple of 3 or 7.

**HTML Code:**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width">

<title>JavaScript program to check whether a given positive number is a multiple of 3 or a multiple of 7. </title>

</head>

<body>

</body>

</html>

**JavaScript Code:**

function test37(x)

{

if (x % 3 == 0 || x % 7 == 0)

{

return true;

}

else {

return false;

}

}

console.log(test37(12));

console.log(test37(14));

console.log(test37(10));

console.log(test37(11));

3. Write a JavaScript program to convert temperatures to and from Celsius, Fahrenheit

**HTML Code:**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Write a JavaScript program to convert temperatures to and from celsius, fahrenheit</title>

</head>

<body>

</body>

</html>

**JavaScript Code:**

function cToF(celsius)

{

var cTemp = celsius;

var cToFahr = cTemp \* 9 / 5 + 32;

var message = cTemp+'\xB0C is ' + cToFahr + ' \xB0F.';

console.log(message);

}

function fToC(fahrenheit)

{

var fTemp = fahrenheit;

var fToCel = (fTemp - 32) \* 5 / 9;

var message = fTemp+'\xB0F is ' + fToCel + '\xB0C.';

console.log(message);

}

cToF(60);

fToC(45);

4. Write a JavaScript program to compute the sum of the two given integers. If the two values are the same, then return triple their sum.

**HTML Code:**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width">

<title>JavaScript program to compute the sum of the two given integers. If the two values are same, then return triple their sum</title>

</head>

<body>

</body>

</html>

**JavaScript Code:**

function sumTriple (x, y) {

if (x == y) {

return 3 \* (x + y);

}

else

{

return (x + y);

}

}

console.log(sumTriple(10, 20));

console.log(sumTriple(10, 10));

5.Write a JavaScript program to check a pair of numbers and return true if one of the numbers is 50 or if their sum is 50.

**HTML Code:**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width">

<title>JavaScript program to check two given numbers and return true if one of the number is 50 or if their sum is 50.</title>

</head>

<body>

</body>

</html>

**JavaScript Code:**

function test50(x, y)

{

return ((x == 50 || y == 50) || (x + y == 50));

}

console.log(test50(50, 50))

console.log(test50(20, 50))

console.log(test50(20, 20))

console.log(test50(20, 30))

6.Write a JavaScript program to check two given integers whether one is positive and another one is negative.

**HTML Code:**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width">

<title>JavaScript program to check from two given integers, whether one is positive and another one is negative.</title>

</head>

<body>

</body>

</html>

**JavaScript Code:**

function positive\_negative(x, y)

{

if ((x < 0 && y > 0) || x > 0 && y < 0)

{

return true;

}

else

{

return false;

}

}

console.log(positive\_negative(2, 2));

console.log(positive\_negative(-2, 2));

console.log(positive\_negative(2, -2));

console.log(positive\_negative(-2, -2));