1. Declare two variables and show them:

var a=5;

var b=6;

console.log(a);

console.log(b);

1. Write a function that can find triangle's area:

function triangleArea(a,b,angle){

if (a <=0 )

return 0;

if (b <=0 )

return 0;

if (angle <=0 || angle > 179)

return 0;

return Math.round(0.5\*(a\*b)\* Math.sin(angle\* Math.PI/180));

}

alert(triangleArea(2,2,30));

1. Write a function that reverse the given array using three kind of loops:

//while

var a= new Array(1,9,5);

function revWhile (a) {

var i=a.length-1;

while(i>=0){

console.log(a[i]);

i-=1;

}

}

revWhile(a);

//do .. while

var a = new Array(1,9,5);

function revDoWhile(a){

var i=a.length-1;

do {

console.log(a[i]);

i-=1;

} while(i>=0);

}

revDoWhile(a);

//for

var a = new Array(1,9,5);

function revFor (a){

var i=a.length-1;

for(i=a.length-1; i>=0; i--){

console.log(a[i]);

}

}

revFor (a);

1. Explain the difference between ++i and i++ with example:

var x=5;

var y;

y=x++;// y=5,x=6;

y=++x;//y=6, x=6;

1. Write a function that checks if the given argument is positive number or negative number or is 0

var number= 0;

if(number > 0){

console.log("Number is positive");

}else if(number<0){

console.log("Number is negative");

}else {

console.log("Number equals to 0");

}

1. Create a page that asks the user his name and alert it back

var name = prompt("What is your name?");

alert("Your name is "+name+".");

1. Write a function that calculates factorial

var x;

function fact(x){

if(x<0) return NaN;

if(x =0)return 1;

if(x!=1){

return x\*fact(x-1);

} else {

return x;

}

}

console.log(fact(3));