**Assignment 04:**

1. Write a JavaScript program that accept two integers and display the larger.

//\*

var num1, num2;

num1 = window.prompt("Input first integer", "0");

while(parseInt(num1)!= num1){

num1 = window.prompt("Your number is not integer, please input again", "0");

}

num2 = window.prompt("Input second integer", "0");

while(parseInt(num2)!= num2){

num2 = window.prompt("Your number is not integer, please input again", "0");

}

console.log("The larger of "+num1+" and "+num2+" is "+Math.max(num1,num2))

1. Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen. Go to the editor

Sample Output :

"0 is even"

"1 is odd"

"2 is even"

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for (var i=0;i<=15;i++){

if (i%2===0) console.log(i+ " is even");else console.log(i+ " is odd")

}

1. Write a JavaScript program which iterates the integers from 1 to 100. But for multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".

for (var i=1;i<=100;i++){

if (i%15===0) console.log(i+ " FizzBuzz")

else{

if (i%3===0) console.log(i+ " Fizz")

else if(i%5===0) console.log(i+ " Buzz")

}

}

1. Write a JavaScript program to find the armstrong numbers of 3 digits.

Note: An Armstrong number of three digits is an integer such that the sum of the cubes of its digits is equal to the number itself. For example, 371 is an Armstrong number since 3\*\*3 + 7\*\*3 + 1\*\*3 = 371.

//a^3+b^3+c^3 = [abc]

for (var i=100;i<=999;i++){

var c = i%10

var b = ((i-c)/10)%10

var a = ((i-b\*10-c)/100)%10

if(a\*a\*a+b\*b\*b+c\*c\*c === i) console.log(i)

}

1. 10. Write a JavaScript program to construct the following pattern, using a nested for loop.

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\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

for (var i=1;i<=5;i++)

{

var st = ""

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

st += "\*"

}

console.log(st)

}