JAVASCRIPT

**What is java script?**

JavaScript **is a scripting language** that enables you to create dynamically updating content, control multimedia, animate images.

**JavaScript Data Types:**

**2 types : relative , primitive**

* String.
* Number.
* Big int.
* Boolean.
* Undefined.
* Null.
* Symbol.
* Object.

**Comment:**

“//” – used for single line comments

“/\* \*/” – used for multiple line comments

**Keywords:**

2 types

Variable: let, var

Constants : const

**Operators:**

* Arithmetic
* Bitwise
* Comparision
* Relational
* Assignment
* Logical

“;” used to indicate the line is terminated.

**Difference between == and ===**

== operator does the type conversion of the operands before comparison, whereas the === operator compares the values as well as the data types of the operands.

**Basic programs**

**1). Create a for loop that iterates up to 100 while outputting "fizz" at multiples of 3, "buzz" at multiples of 5 and "fizzbuzz" at multiples of 3 and 5. in javascript**

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

if(i%3===0&&i%5===0){

console.log("FIZZBUZZ");

}

else if(i%5===0){

console.log(i+"BUZZ");

}

else if(i%3===0){

console.log(i+"FIZZ");

}

else{

console.log(i);

}

}

**2nd question**

**Write a JS program to print a Left Triangle Pattern as shown below.**

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for(let i=1;i<=5;i++){

let pattern="";

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

pattern += "\*"+" "

}

console.log(pattern)

}

**// 2nd method**

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

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

process.stdout.write('\*')

}

console.log('\n');

}

**print the pattern**

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

**\* \* \***

**\* \***

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for(let i=5;i>=1;i--){

let pattern="";

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

pattern += "\*"+" "

}

console.log(pattern)

}

**print pattern**

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let n=5;

let space=n-1;

let stars=1;

for(let i=1;i<=n;i++){

let r=""

for(let j=1;j<=space;j++){

r+=" "

}

for(let k=1;k<=stars;k++){

r+="\*"

}

console.log(r);

space--;

stars+=2;

}

**2nd method**

for(var i=0;i<5;i++){

line=""

for(var j=1;j<5-i;j++){

line+=" ";

}

for(var k=0;k<2\*i+1;k++){

line+="\*";

}

console.log(line)

}

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