1>

var i,j;

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

    for(j=1; j<=i; j++){

        document.write("\* ");

 }

document.write("<br>")

}

Ans:

* Outer loop indicates number of rows to print. Here we are printing 5 lines.
* Inner loop indicates number of colums to print.

In the outer loop i=1 checks the condition i<=5 yes its true it will executes inner loop

In inner loop j=1 and checks the condition j<=i yes it is true it will print one \* in first row and j++

Now j=2 and checks the condition j<=i (now i=1) condition false it will come out of the loop comes down to nxt line.

Same process will continue if j=2 in second row it will pring two \*\*

Like that it will print till i=5. If it is I incremented to 6 the condition failes.

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

1. var i,j;

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

for(j=i; j<=5; j++){

document.write("\* ");

}document.write("<br>")}

Ans: outer loop i=1 and condition I<=5 true so comes down to inner loop

Here j=i and condition j<=5; from j=1 to j=5 the condition true it will print (5 \*) in first line once j= 6 checks the condition (j<=5) failed.comes to nxt line.

Similarly if I=5 it will print j=5 checks the condition (j<=5) true it t will print one\*

In last line. Once j++ => j=6 (j<=5)condition failes .

3>var enter=" ";

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

    for (let k=i; k<5; k++){

        enter +=" ";

}

    for (let j=1; j<=i; j++)  {

 enter += "\* "; //enter=enter+\*

}

     enter +="\n";

}

console.log(enter)

Ans:-

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

Outer loop checks the lines to print.First inner loop print num of spaces.

Second inner loop print num of \*

If i=1 checks the condition i<=5 true so enter into First inner loop

K=i means checks the condition k<5 it will print four spaces once the k=5 condition failes comes out of the loop and enter into second inner loop print the J=1 checks the condition j<=i

Means i=1 it will print one \* and j incremented to j=2 condition j<=i condition failes enter into nxt line.

Similarly i=2 first inner loop prints( 3 spaces) and second inner loop prints (two \*\*)

Like that it will process i=5.

4>

var enter="";

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

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

enter +=" ";

}

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

enter += " \*";//enter=enter+\*

}

enter +="\n";}

console.log(enter)

Ans: first outer loop i=1 checks condition i<=5 true enter into first inner loop

J=1 and checks the condition j<=i means it will print (onespace) j++ now j=2 checks the condition 2<=1

False comes into second inner loop checks the condtion k=i and k<=5 it will print up to (5\*\*\*\*\*)

Once the k=6 comes out of the loop. Similar way till i=5 the process contiouns.

 \* \* \* \* \*

   \* \* \* \*

    \* \* \*

     \* \*

      \*

5>

let enter="";

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

    for (let j=i; j<5; j++){

        enter +="  "

    }for (let k=1; k<=(2\*i)-1; k++){

        enter +="\* ";}

   enter +="\n"

}

for (let x=1; x<=3; x++){

    for (let y=1; y<=6; y++){

    enter +=" ";

}

for(let z=1; z<=3; z++){

    enter+="\* ";}

enter+="\n"

}

console.log(enter);

Ans:

    \*

      \* \* \*

    \* \* \* \* \*

  \* \* \* \* \* \* \*

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

      \* \* \*

      \* \* \*

      \* \* \*

First 3 (I,j,k) loops prints hill pyramid and remaining 3(x,y,z) loops print square.

5>