1.>WAP to make reverse of the string using loops.

var str="hello";

var newstr="";

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

    newstr =newstr+str[i];

}

document.write(newstr)

Ans: olleh

In for loop i= index starts from 0

In above given str=”hello” is having 5 letter

So we have to do str.length-1=5-1 =>4

I takes from o to 4=>5 letters

When i=5-1=>4 checks the condition 4>=0 yes true so it will decrese one 4th position letter i.e=o

That can be added to newstr

Similarly till i=1-1 checks the condition 0>=0 true it will print “h” last.

1. WAP to sort array of your choice using loops?

var array=[2,4,12,43,51,15,16,86];

var length=array.length;

var newArray=[];

for (let i=0; i<length; i++){

    for(let j=i+1; j<length; j++){

        let a=0;

        if(array[i]>array[j]){

            a=array[i];

            array[i]=array[j];

            array[j]=a;

        }

    }

    newArray.push(array[i]);

}

console.log(newArray)

 Ans:[2, 4, 12, 15, 16, 43, 51, 86]

Array length is 8; it means index i starts from 0 to 7;

In first loop i=0 checks the condition i<length I.e 0<8 true comes down to inner loop

Checks the condition j=0+1 checks condition 1<8 true so it enter into if condition

Checks if I>j means 2>4 condition false no swapping will takes place.similarly it will repeat the same till i=7;

here the array[I]value stores in a

that array[i] pushing into newArray.

3.

WAP to check whether given number or string is palindrom or not?

function palindrom(str){

    var length=str.legth;

    var minInteger =Math.floor(length/2);

    for(let i=0; i<minInteger; i++){

        if(str[i]!==str[length-1-i]){

            return false;

        }

    }

    return true;

}

document.write(palindrom("madam"));

Ans:Given string is palindrom.

In first variable stores string length =5;

In second variable it takes the min integer value=2;

In loop I=0 checks the condition i<2 yes true

Enter into if condition it checks the condition str[0]!==str[5-1-0]=>i[0]=I[4] =>m=m condition true;

Nxt I=1it checks the condition str[1]!==str[5-1-1]=>i[0]=I[4] =>a=a condition true;