<!DOCTYPE html>

<html>

<head>

<title>asd</title>

</head>

<body>

<h2>Enter number:</h2>

<input type="number" id="numberInput" placeholder="enter a number"/>

<button onclick="checkfactorial()">check factorial</button>

<button onclick="checkfibonacci()">fibonnaci</button>

<button on click="checkprimes()">primes</button>

<button onclick="checkpalindrome()">palindrome</button>

<div id="result"></div>

<script>

function checkfactorial()

{

const num=parseInt(document.getElementById("numberInput").value);

if(num<0)

{

document.getElementById("result").innnertext="non negative numbers";

return;

}

let result=1;

for(let i=2;i<=num;i++)

result\*=i;

document.getElementById("result").innertext="factorial of a ${num} is $ {result}";

}

function checkfibonacci()

{

const num=parseInt(document.getElementById("numberInput").value);

if(num<0)

{

document.getElementById("result")="non negative numbers";

return ;

}

const fib=[0,1];

for(let i=2;fib[i-1]+fib[i-2]<=num;i++)

{

fib[i]=fib[i-1]+fib[i-2];

}

document.getElementById("result").innertext="fibonacci series up to${num}:${fib.filter(n=>n<=num).join(",")}”;

}

function checkprimes()

{

const num=parseInt(document.getElementById("numberinput").value);

if(num<2)

{

document.getElementById("result")="non negative";

return;

}

const primes=[];

for(let i=2;i<=num;i++)

{

let isPrime=true;

for(let j=2;j<=math.square[i];j++)

{

if(i%j==0)

isPrime=false;

break;

}

}

if (isPrime)primes.push(i);

}

document.getElementById("result").innerhtml="primes up to${num}:${primes.join(",")}”;

}

function checkpalindrome()

{

const str=document.getElementById("numberinput").value);

const reverse=str.split("").reverse().join("");

const ispalindrome=str===reverse;

document.getElementById("result").innertext=is palindrome

?'${num} is a palindrome;”

:'${num}is not a palindrome;”

}

</script>

</body>

</html>