**1.Write a function that checks if a given number is prime. A prime number is a number greater than 1 that has no divisors other than 1 and itself.**

**function checkPrime(num) {**

**let i, c=0;**

**for (i = 2; i <= num - 1; i++) {**

**if (num % i == 0) {**

**c++;**

**break; } }**

**if (c == 2) console.log(" True");**

**else console.log(" False");}**

**checkPrime(17);**

**checkPrime(18);**

**2.Write a function that checks if a given number is a strong number. A strong number is a number that is equal to the sum of factorials of the individual digits.**

**function isStrongNumber(num) {**

**function factorial(n) {**

**if (n === 0 || n === 1) return 1;**

**let result = 1;**

**for (let i = 2; i <= n; i++) {**

**result \*= i;**

**}**

**return result;**

**}**

**const digits = num.toString().split('');**

**const sumOfFactorials = digits.reduce((sum, digit) => sum + factorial(parseInt(digit)), 0);**

**return sumOfFactorials === num;**

**}**

**console.log(isStrongNumber(145));**

**console.log(isStrongNumber(123));**

**3.** **Write a function that calculates the sum of all digits in a given integer.**

**function sumOfDigits(num) {**

**let s = 0;**

**while(n>0){**

**s =s+ (n%10);**

**n= Number.parseInt(n/10);**

**}**

**return s;**

**}**

**console.log(sumOfDigits(12345));**

**4. Write a function that finds the maximum number in a given list of integers.**

**function max(n){**

**let i,max;**

**for(i=1;i<n.length;i++){**

**if(n[i-1]<n [i])**

**max = n[i]**

**else**

**max =n[i-1];**

**}**

**return max**

**}**

**let testNum = [1, 7, 3, 9, 2];**

**console.log(max(testNum));**

**5.Write a function that takes a number as input and returns a list of Fibonacci numbers of length equal to that number.**

**function Fibo(n){**

**let fib = [0,1];**

**if(n==1){**

**return fib [0]**

**}**

**else if(n==2){**

**return fib;**

**}**

**else{**

**let i,temp;**

**for(i = 2 ; i<n ; i++){**

**fib.push(fib [i-1] + fib [i-2]); }**

**return fib; }**

**}**

**console.log(Fibo(5));**