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| 1. Do the below programs in anonymous function & IIFE  a.PRINT ODD NUMBERS IN Array  var array=[1,2,3,4,5,6,7,8,9,];  anonymous : function(array){  for(var i = 0 ; i< array.length ; i++){  if(array[i]%2!=0){  console.log(array[i]);  }  }  }(array);  we call this function=>var array=[1,2,3,4,5,6,7,8,9,];  let abc=function(array){  for(var i = 0 ; i< array.length ; i++){  if(array[i]%2!=0){  console.log(array[i]);  }  }  };  abc(array);output=>  1  3  5  7  9  IMMEDIATELY INVOKED FUNCTION Expression(IIFE)  var array=[1,2,3,4,5,6,7,8,9];  (function (array)  {  for(var i=0; i<array.length; i++)  {  if(array[i]%2!==0)  {  console.log(array[i]);  }  }  })(array);=>output=>1  3  5  7  9  b.Convert all the strings to title caps in a string array  anonymous :  var str="my name is ayesha";  function (str) {  str = str.toLowerCase().split(' ');  for (var i = 0; i < str.length; i++) {  str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);  }  return str.join(' ');  }(str)  we can call this function=>  var str="my name is ayesha";  let def=function (str) {  str = str.toLowerCase().split(' ');  for (var i = 0; i < str.length; i++) {  str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);  }  return str.join(' ');  }  def(str)  IIFE :  var str="my name is ayesha";  (function (str) {  str = str.toLowerCase().split(' ');  for (var i = 0; i < str.length; i++) {  str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);  }  return str.join(' ');  })(str);  c.Sum of all numbers in an array  Anonymous:  var a=[1,2,3,4,5,6,7,8,9];  var sum=0;  function (a)  {  for(let i=0; i<a.length; i++)  {  sum=sum+a[i];  }  return sum;  }(a);  we can use this function =>  var a=[1,2,3,4,5,6,7,8,9];  var sum=0;  let ghi=function (a)  {  for(let i=0; i<a.length; i++)  {  sum=sum+a[i];  }  return sum;  }  ghi(a);  IIFE :  var a=[1,2,3,4,5,6,7,8,9];  var sum=0;  (function (a)  {  for(let i=0; i<a.length; i++)  {  sum=sum+a[i];  }  return sum;  })(a);  d.Return all the prime numbers in an array  Anonymous Function:    let n=34;  function (n)  {  for(let i=2; i<=n; i++)  {  let flag=0;  for(let j=2; j<i; j++)  {  if(i%j==0)  {  flag=1;  break;  }  }  if(flag==0)  {  console.log(i);  }  }  }  (n);  we can use this function =>  let n=34;  let l=function (n)  {  for(let i=2; i<=n; i++)  {  let flag=0;  for(let j=2; j<i; j++)  {  if(i%j==0)  {  flag=1;  break;  }  }  if(flag==0)  {  console.log(i);  }  }  }  l(n);  IIFE :  let n=34;  (function (n)  {  for(let i=2; i<=n; i++)  {  let flag=0;  for(let j=2; j<i; j++)  {  if(i%j==0)  {  flag=1;  break;  }  }  if(flag==0)  {  console.log(i);  }  }  })(n);  e.Return all the palindromes in an array  Anonymous Function : function (arr, n)  {  // Traversing each element of the array  // and check if it is palindrome or not  for (let i = 0; i < n; i++)  {  let ans = isPalindrome(arr[i]);  if (ans == false)  return false;  }  return true;  }(arr,n)  IIFE :  ( function (arr, n)  {  // Traversing each element of the array  // and check if it is palindrome or not  for (let i = 0; i < n; i++)  {  let ans = isPalindrome(arr[i]);  if (ans == false)  return false;  }  return true;  })([1,2,3] , 3)    f.Return median of two sorted arrays of the same size.  Anonymous:  function(nums1, nums2) {  let s1= nums1.length  let s2= nums2.length  let index = s1+s2  if(s1==0){  if(s2%2==1){  return nums2[Math.floor(index/2)]  }else{  return (nums2[Math.floor(index/2)-1] + nums2[Math.floor(index/2)])/2  }  }  for(let i=0 ; i<index/2+1;i++){  nums1.push(nums2[i])  }  nums1.sort((a,b)=>a-b)  console.log(nums1)  if(index%2==1){  return nums1[Math.floor(index/2)]  }else{  return (nums1[Math.floor(index/2)-1] + nums1[Math.floor(index/2)])/2  }    };  IIFE:  (function(nums1, nums2) {  let s1= nums1.length  let s2= nums2.length  let index = s1+s2  if(s1==0){  if(s2%2==1){  return nums2[Math.floor(index/2)]  }else{  return (nums2[Math.floor(index/2)-1] + nums2[Math.floor(index/2)])/2  }  }  for(let i=0 ; i<index/2+1;i++){  nums1.push(nums2[i])  }  nums1.sort((a,b)=>a-b)  console.log(nums1)  if(index%2==1){  return nums1[Math.floor(index/2)]  }else{  return (nums1[Math.floor(index/2)-1] + nums1[Math.floor(index/2)])/2  }    });  g.Remove duplicates from an array  anonymous :  var array=[1,1,2,3,4,5];  function (array){  let dup = [...new Set(array)];  return(dup);  }  (array);  IIFE :  var array=[1,1,2,3,4,5];  (function (array){  let dup = [...new Set(array)];  return(dup);  })  (array);  h.Rotate an array by k times  anonymous :  function (a, n, k)  {  k = k % n;    for (let i = 0; i < n; i++) {  if (i < k) {      console.log(a[n + i - k] + " ");  }  else {      console.log((a[i - k]) + " ");  }  }    }  let Array = [1, 2, 3, 4, 5];  let N = Array.length;  let K = 2;  (Array, N, K);  IIFE :  var Array = [1, 2, 3, 4, 5];  var N = Array.length;  var K = 2;  (function (a, n, k)  {  k = k % n;    for (let i = 0; i < n; i++) {  if (i < k) {      console.log(a[n + i - k] + " ");  }  else {      console.log((a[i - k]) + " ");  }  }    })  (Array, N, K);  2. Do the below programs in arrow functions.  A.Print odd numbers in an array  Arrow Function :  var y=[1,2,3,4,5,6,7]  var odd=(array)=>{  let arr=[];  for(let i=0; i<array.length; i++)  {  if(array[i]%2!==0)  {  arr.push(array[i]);  }  }  return arr;  }  console.log(odd(y));  B.Convert all the strings to title caps in a string array  USING ARROW FUNCTION:  var str="my name is ayesha";  let def= (str)=>{  str = str.toLowerCase().split(' ');  for (var i = 0; i < str.length; i++) {  str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);  }  return str.join(' ');  }  console.log(def(str));  c.Sum of all numbers in an array  BY USING ARROW FUNCTION:  var a=[1,2,3,4,5,6,7,8,9];  var sum=0;  let ghi=(a)=>  {  for(let i=0; i<a.length; i++)  {  sum=sum+a[i];  }  return sum;  }  console.log(ghi(a));  D.Return all the prime numbers in an array  BY USING ARROW FUNCTION:  let n=34;  let l=(n)=>  {  for(let i=2; i<=n; i++)  {  let flag=0;  for(let j=2; j<i; j++)  {  if(i%j==0)  {  flag=1;  break;  }  }  if(flag==0)  {  console.log(i);  }  }  }  console.log(l(n));  E.Return all the palindromes in an array  BY USING ARROW FUNCTION:  Palindrome = (arr, n) =>  {  // Traversing each element of the array  // and check if it is palindrome or not  for (let i = 0; i < n; i++)  {  let ans = isPalindrome(arr[i]);  if (ans == false)  return false;  }  return true;  } |