Do the below programs in anonymous function and Arrow Functions

1. Print odd numbers in an array

Solution:

\*Using Anonymous function:

var b = [];

var odd = function(a){

for(i=0; i<a.length; i++){

if (a[i]%2==0)

b.push(a[i]);

}

}

return b;

}

console.log(odd(a));

\* Using Anonymous function:

var b = [];

var odd = (a) => {

for(i=0; i<a.length; i++){

if (a[i]%2==0)

b.push(a[i]);

}

}

return b;

}

console.log(odd(a));

2. Convert all the strings to title caps in a string array

Solution:

\*Using Anonymous function:

var str = "hello world";

var temp;

var conversionToUpperCase =function (str){

temp = str.toUpperCase();

return temp;

}

console.log(conversionToUpperCase(str));

\*Using Arrow function:

var str = "hello world";

var temp;

var conversionToUpperCase = (str)=>{

temp = str.toUpperCase();

return temp;

}

console.log(conversionToUpperCase(str));

3. Sum of all numbers in an array

Solution:

\*Using Anonymous function:

var arr=[1,2,3,4,5,6,7,8,9,10]

var sum = 0;

var addition= function(arr){

for (i=0;i<arr.length;i++){

sum = sum+arr[i];

}

return sum;

}

console.log(addition(arr));

\*Using Arrow function:

var arr=[1,2,3,4,5,6,7,8,9,10]

var sum = 0;

var addition= (arr)=>{

for (i=0;i<arr.length;i++){

sum = sum+arr[i];

}

return sum;

}

console.log(addition(arr));

4. Return all the prime numbers in an array

Solution:

\*Using Anonymous function:

var num = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 97, 99, 100];

var res = num.filter(function (num){

if(num < =2 || num % 2 ==0)

return false;

return true;

});

console.log(res);

\*Using Arrow function:

var num = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 97, 99, 100];

var res = num.filter( (num)=>{

if(num < 2 || num % 2 ==0)

return false;

return true;

});

console.log(res);

5. Return all the palindromes in an array

Solution:

6. Return median of two sorted arrays of same size

Solution:

7. Remove duplicates from an array

Solution:

\*Using Anonymous function:

const array = [1,2,3,4,5,6,6,6,7,7,4,3,2,1]

var temp = function(array){

const set = new Set(array);

const newArray = […set];

return(newArray);

}

console.log(temp(array));

\*Using Arrow function:

const array = [1,2,3,4,5,6,6,6,7,7,4,3,2,1]

var temp = (array) => {

const set = new Set(array);

const newArray = […set];

return(newArray);

}

console.log(temp(array));

8. Rotate an array by k times and return the rotated array

Solution: