GUVI ASSIGNMENT

Question no 1 :SUM OF ALL NUMBERS IN ARRAY

ANS:

var arr=[1,2,3,4,5]

var sum = arr.reduce(function(a,b){

return a+b;

}, 0);

console.log(sum);

QUESTION NO 2:PRINT ODD NUMBER IN ARRAY

ANS: var arr=[89,23,20,26,364,8789];

function oddNumber(){

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

if(arr[i]%2===1){

console.log(arr[i]);

}

}

oddNumber();

question 3 :to check the palindrome in given array

ans:

palindrome=function(arr){

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

{

arr[i]=arr[i].toString();

var res=arr[i].split('');

result=arr[i];

res.reverse();

if(result==res.join('')){

console.log(result);

}

}

}

palindrome(["malayalam","tamil","madam",121]);

convert the string into capital letters

ANS:  
titlecase=function(str){

str=str.toLowerCase();

str=str.split(' ')

var strNew=''

str.forEach(function(item){

strNew= strNew+item[0].toUpperCase()+item.slice(1)+' ';

})

console.log(strNew.trim())

}

titlecase("cibi is a good")

QUESTION 5: CHECKING THE PRIME NUMBER IN ARRAY

ANS:

prime= function(arr){

arrPrime=[]

sum=arr.forEach(function(item){

flag=true

for(i=2;i<item;++i){

if(item%i===0){

flag=false

break;

}

}

if(flag===true &&item>1) {

arrPrime.push(item)

}

})

console.log(arrPrime)

}

prime([1,2,3,4,5,11,9,17])

QUESTION 6: REMOVING DUPLICATES FROM ARRAY

ANS:

remove=function(arr){

uniqueArr=[]

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

if(!(uniqueArr.includes(arr[i]))){

uniqueArr.push(arr[i])

}

}

return uniqueArr;

};

let arr=["cibi","vignesh","guna","harish","termi","cibi"]

console.log(remove(arr));

QUESTION NO 7: MEDIAN OF TWO SORTED ARRAYS OF SAME SIZE

ANS:  
median=function(arr1,arr2,n){

var i=0;

var j=0;

var count;

var m1=-1,m2=-1

for(count=0;count<=n;count++){

if(i==n){

m1=m2;

m2=arr2[0];

break;

}

else if(j==n){

m1=m2;

m2=arr1[0];

break;

}

if(arr1[i]<arr2[j]){

m1=m2;

m2=arr1[i];

i++;

}

else{

m1=m2;

m2=arr2[j];

j++;

}

}

return (m1+m2)/2;

}

var arr1=[1, 12, 15, 26, 38];

var arr2=[2, 13, 17, 30, 45];

var n1=arr1.length;

var n2=arr2.length;

if(n1==n2)

console.log("Median is " + median(arr1,arr2,n1));

else

console.log("Doesn't work unequal array of size");

QUESTION 8: ROTATE AN ARRAY BY K TIMES

ANS:  
rotate=function(arr,k){

arr2=arr.splice(0,k)

arr.push(...arr2)

return arr;

}

let arr=[1,2,3,4,5,6,7,8]

console.log(rotate(arr,3))