1.PRINT ODD NUMBER IN A ARRAY:

ANSWER:

```
let arr = [1,2,3,4,5,6,7];
// function to  print odd Number
var printodd = function (x)
{
   var box = [];
   for (i=0; i<x.length; i++)
   {
      if(x[i] % 2 !== 0)
      {
         box.push(x[i])
      }
   }
return box;
}
console.log(printodd(arr));
```

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2. CONVERT ALL THE STRING TO THE TITLE CAPS IN A STRING ARRAY

ANSWER:

```
var name = ["raj", "sam", "manish", "yash"]
var capname= [];
let printname = function(x)
{
for (let i=0; i<x.length; i++)
   {  // to change entire array element in capital letter
       var name1= x[i].toUpperCase();
       capname.push(name1);
   }
return (capname);
}
console.log(printname(name));
```

OR // IF ONLY FIRST LETTER OF STRING TO BE PRINTED INCAPS

```
var name = ["raj", "sam", "manish", "yash"]
var box = [];
var printfirstcap =function (x){
   for (let i=0; i<x.length;i++){
   var jass = (x[i].charAt(0).toUpperCase() + x[i].slice(1));
   box.push(jass);
}
return (box);
}
console.log(printfirstcap(name));
```

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3. **SUM OF ALL NUMBER IN A ARRAY.**

ANSWER:

```
let arr = [1,2,3,4,5,6,7];
let sum =0;

let printsum = function(x)
{
   for ( let i=0; i<x.length; i++)
   {
   sum += x[i];
   }
   return sum;
}
console.log(printsum(arr));
```

**********_____**********

4. RETURN ALL THE PRIME NUMBERS IN A ARRAY.

ANSWER:

```
let vivo = [2,3,4,5,6,7,8,9];
var prime=function(arr){
   var box = [];
   for (var i=0;i<arr.length;i++)
   {
     let isprime=true;
      if (arr[i]===0 || arr[i]===1){
         isprime=false;
      }
      else if ( arr[i] ===2){
          isprime=true;
      }
      else {
         for (var j=2; j <arr[i];j++){
         if (arr[i] % j===0){
            isprime=false;
            break;
         }
      }
      }
      if(isprime){
         box.push(arr[i]);
      }
   }
   return box;
}

console.log(prime(vivo))
```

5. RETURN ALL PALINDROMES IN AN ARRAY.

ANSWER:

```
let x = [" dad", "madam", "mom", "sister"];

var box = []

var palindrome = function(x){

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

   var revstr =  function (str)
   {
      return str.split("").reverse().join("");
   }

   box.push (revstr (x[i]) );

}
console.log(box);


var box2 =[];

for (var j=0; j<=x.length; j++)
{
   for( var k =0; k<box.length; k++)
   {
            if((box[k]) === x[j])
            {
               box2.push(box[k]);
            }
   }

}

return (box2);


}


console.log(palindrome(x));
```

OR THE 2ND METHOD FOR PANLINDROMES

```
let x = ["dad", "madam", "mom", "sister"];
var box = [];

for( var j =0; j<x.length; j++)
{
   let str1 = x[j].split("");
   let revstr1= x[j].split("").reverse();

   if(JSON.stringify(str1)===JSON.stringify(revstr1))
   {
      box.push(x[j])
   }
}
console.log(box);
```

0r 3RDMETHOD

```
let x = ["dad", "madam", "mom", "sister"]
var palindrome=function(x){
   var box=[];
   for(let i=0;i<x.length;i++)
   {
      var str=x[i].split("").reverse().join("");
      if(str===x[i])
      {      box.push(x[i]);
      }   }
   return box;
};

console.log(palindrome(x));
```

6. RETURN MEDIAN OF TWO SORTED ARRAYS OF SAME SIZE.

ANSWER:

```
let a = ["vikas","abhinav","abhishek"];
let b = ["vignesh","malini","vijay"]

var box =[];

var mediansort=function(x,y)
{
   if(x.length===y.length){
       x=x.sort();
       y=y.sort();
       let arr=x.concat(y);
       let median=arr[(arr.length/2)-1]+", "+arr[((arr.length/2))];
       box.push(median)
   }else{
       console.log("invalid input");
   }
   return box;
}
console.log(mediansort(a,b));
```

7. REMOVE DUPLICATES FROM AN ARRAY.

ANSWER:

```
let arr = ["manoj","vimal", "yash",22,22,44,56,56, "manoj"];
let box =[];
let removeDuplicate = function(x)
{
   let x3 = new Set(x);
      box.push(...x3);
      return box;
}
console.log (removeDuplicate(arr));
```

8. ROTATE AN ARRAY BY K TIMES AND RETURN THE ROTATED ARRAY

ANSWER:

```
var rotate = function(x,k)
{
          for (var i=0; i<k; i++)
   {
           x.unshift(x.pop())
   }
   return x;

}
console.log(rotate(arr,5))
```