console.log(sentence);

Que.1: Print odd numbers in an array? Ans: with anonymous function var getOddNumbers = function() { var arr = [1, 2, 3, 4, 5, 6]; for (var i = 0; i < arr.length; i++) { if (arr[i] % 2 !== 0) { console.log(arr[i]); } } **}**; getOddNumbers(); ->1 3 5 Ans: with IIFE (function() { var arr = [1, 2, 3, 4, 5, 6];for (var i = 0; i < arr.length; i++) { if (arr[i] % 2 !== 0) { console.log(arr[i]); } } }) (); ->1 3 5 Que.2: convert all the strings to title caps in a string array? Ans: with anonymous function var titleCase = function (string) { var sentence = string.toLowerCase().split(" "); for(var i = 0; i< sentence.length; i++){ sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1); }

```
return sentence;
 titleCase("this is guvi task");
-> [ 'This', 'Is', 'Guvi', 'Task' ]
Ans: with IIFE
(function (string) {
   var sentence = string.toLowerCase().split(" ");
   for(var i = 0; i< sentence.length; i++){
     sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1);
   }
 console.log(sentence);
 return sentence;
 })
 ("this is guvi task");
->[ 'This', 'Is', 'Guvi', 'Task']
Que.3: sum of all numbers in an array?
Ans: with anonymous function
var getSum = function() {
    var arr = [1, 2, 3, 4, 5, 6];
    var sum = 0;
    for (var i = 0; i < arr.length; i++) {
       sum = sum + arr[i];
    }
    console.log(sum);
  };
  getSum();
-> 21
Ans: with IIFE
(function() {
    var arr = [1, 2, 3, 4, 5, 6];
    var sum = 0;
    for (var i = 0; i < arr.length; i++) {
       sum = sum + arr[i];
    }
    console.log(sum);
```

```
})
  ();
->21
```

Que.4: Returns all the prime numbers in an array?

Ans: with anonymous function

```
var prime = function (arr) {
  var num = [];
  for (var i in arr) {
    var count = 0;
    for (var j = 2; j<=arr[i]; j++) {
       if (arr[i] % j === 0) {
         count = count + 1;
       }
    }
    if (count === 1) {
       num.push(arr[i]);
    }
  console.log(num);
prime([1,2,3,4,5,6,7,8,9,10]);
->[2,3,5,7]
Ans: with IIFE
(function (arr) {
  var num = [];
  for (var i in arr) {
    var count = 0;
    for (var j = 2; j<=arr[i]; j++) {
       if (arr[i] % j === 0) {
         count = count + 1;
       }
    }
    if (count === 1) {
       num.push(arr[i]);
    }
  }
  console.log(num);
([1,2,3,4,5,6,7,8,9,10]);
->[2,3,5,7]
```

Que.5: Return all the palindromes in an array? Ans: with anonymous function

```
var palindrome = function(array){
  var str = "":
  var rev = "";
  for(var i in array){
    rev = array[i].split("").reverse().join("");
    if(rev===array[i]){
    str = str + " " + array[i];
    }
  }
  console.log(str.trim(""));
palindrome(["hello","12121", "madam"]);
->12121 madam
Ans: with IIFE
(function(array){
  var str = "";
  var rev = "":
  for(var i in array){
    rev = array[i].split("").reverse().join("");
    if(rev===array[i]){
    str = str + " " + array[i];
    }
  console.log(str.trim(""));
})
(["hello","12121", "madam"]);
->12121 madam
Que.6: Remove duplicates from an array?
Ans: with anonymous function
var duplicate = function (){
let chars = ['A', 'B', 'A', 'C', 'B','D'];
let uniqueChars = [...new Set(chars)];
console.log(uniqueChars);
}
duplicate();
->[ 'A', 'B', 'C', 'D' ]
```

```
Ans: with IIFE
(function(){
let chars = ['A', 'B', 'A', 'C', 'B','D'];
let uniqueChars = [...new Set(chars)];
console.log(uniqueChars);
})
();
->[ 'A', 'B', 'C', 'D' ]
Que.7: Roatate an array by k times and return the rotated array?
Ans: with anonymous function
var num = [1,2,3,4,5,6,7];
const rotateArray1 = function(nums, k) {
 for (let i = 0; i < k; i++) {
   nums.unshift(nums.pop());
 }
 return nums;
};
console.log(rotateArray1(num,3));
-> [5, 6, 7, 1, 2, 3, 4]
Ans: with IIFE
(function(){
  var num = [1,2,3,4,5,6,7];
const rotateArray1 = (nums, k)=> {
 for (let i = 0; i < k; i++) {
   nums.unshift(nums.pop());
 }
 return nums;
};
console.log(rotateArray1(num,3));
})();
->[5, 6, 7, 1, 2, 3, 4]
Que.8: Return median of two sorted arrays of the same size?
Ans: with anonymous function
const median = function(arr1, arr2){
 let concatArray = arr1.concat(arr2);
```

```
concatArray.sort(function (array1,array2) {
  return array1 - array2;
 });
 let len = concatArray.length;
 return len%2 === 0 ? (concatArray[Math.floor(len/2)-1] + concatArray[Math.ceil(len/2)])/2 :
concatArray[Math.floor(len/2)];
};
let array1 = [1,12,15,26,38];
let array2 = [2,13,17,30,45];
console.log(median(array1,array2));
->16
Ans: with IIFE
(function(){
  const median = (arr1, arr2)=>{
 let concatArray = arr1.concat(arr2);
 concatArray.sort(function (array1,array2) {
  return array1 - array2;
 });
 let len = concatArray.length;
 return len%2 === 0 ? (concatArray[Math.floor(len/2)-1] + concatArray[Math.ceil(len/2)])/2 :
concatArray[Math.floor(len/2)];
};
let array1 = [1,12,15,26,38];
let array2 = [2,13,17,30,45];
console.log(median(array1,array2));
})
();
->16
```