## 1.Do the below programs in anonymous function & IIFE

```
A:Print odd numbers in an array
CODE:
(function () {
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var sum=0;
for (var i = 0; i <=10; i++) {
if(numsArr[i]%2!==0)
console.log(numsArr[i])
}
})();
Output:
1
3
5
7
9
11
B.Convert all the strings to title caps
CODE:
(function (str) {
 a= str.toLowerCase().split(' ').map(function(word) {
  return (word.charAt(0).toUpperCase() + word.slice(1));
 }).join(' ');
 console.log(a);
})("converting string to titlecase");
```

```
OUTPUT:
Converting String To Titlecase
C:Sum of all numbers in an array
Code:
(function () {
 var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var sum=0;
for (var i = 0; i <= 10; i++) {
sum += numsArr[i];
}
console.log(sum);
})();
Output:
66
D.Return all the prime numbers in an array
CODE:
(function (){var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]
numArray = numArray.filter((number) => {
 for (var i = 2; i <= Math.sqrt(number); i++) {
  if (number % i === 0) return false;
 }
```

```
return true;
});
console.log(numArray)})();
OUTPUT:
[2,3,5,7]
E.Return all the palindromes in an array
CODE:
(function () {var arr = ['red', 'malayalam', 12321, 'did', 'naveen'];
const isPalindrome = el => {
 const str = String(el);
 let i = 0;
 let j = str.length - 1;
 while(i < j) {
   if(str[i] === str[j]) {
     i++;
    j--;
   }
   else {
     return false;
   }
 return true;
};
const findPalindrome = arr => {
 return arr.filter(el => isPalindrome(el));
};
```

```
console.log(findPalindrome(arr))})();
OUTPUT:
[ 'malayalam', 12321, 'did' ]
F.Remove duplicates in an array:
CODE:
(function () {var removeDuplicates= (arr, n)=>
{
  if (n==0 | | n==1)
    return n;
  var temp = new Array(n);
  var j = 0;
  for (var i=0; i<n-1; i++)
    if (arr[i] != arr[i+1])
      temp[j++] = arr[i];
  temp[j++] = arr[n-1];
```

```
for (var i=0; i<j; i++)
    arr[i] = temp[i];
 return j;
}
var arr = [1, 2, 2, 3, 4, 4, 4, 5, 5];
  var n = arr.length;
  n = removeDuplicates(arr, n);
  for (var i=0; i<n; i++)
   console.log( arr[i]);})();
OUTPUT:
1
2
3
4
5
2.WARM-UP PROBLEMS:
A.Write a function called "addFive".
Given a number, "addFive" returns 5 added to that number.
CODE:
var num = 10;
function addFive(num) {
```

```
return num+5;
}
var result = addFive(num)
console.log(result)
OUTPUT:
15
B:Fill in your code that takes an number minutes and converts it to seconds.
var min = 5;
function toSeconds(min) {
  return min*60;
}
var secs = toSeconds(min);
console.log(secs)
OUTPUT:
300
C:Create a function that takes a string and returns it as an integer.
CODE:
var mystr = "5";
function toInteger(mystr) {
  return parseInt(mystr);
}
```

```
var myint = toInteger(mystr)
console.log(myint)
console.log(typeof (myint))
OUTPUT:
5
number
D:
CODE:
function getFullName(firstName, lastName){
return `${firstName} ${lastName}`
}
console.log(getFullName("GUVI","Geek"));
OUTPUT:
GUVI Geek
3.Do the below programs in arrow functions
A.Print odd numbers in an array
CODE:
let numberF= () => {
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var sum=0;
for (var i = 0; i <=10; i++) {
```

```
if(numsArr[i]%2!==0)
console.log(numsArr[i])
}
};
numberF();
OUTPUT:
1
3
5
7
9
11
B.Convert all the strings to title caps
CODE:
let fun = (str) => {
a= str.toLowerCase().split(' ').map(function(word) {
 return (word.charAt(0).toUpperCase() + word.slice(1));
}).join(' ');
console.log(a);
};
fun("converting string to titlecase");
OUTPUT:
Converting String To Titlecase
```

C:Sum of all numbers in an array

```
CODE:
let fun = (arr) => {
var sum=0;
for (var i = 0; i <=10; i++) {
sum += arr[i];
}
console.log(sum);
};
fun([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]);
Output:
66
D.Return all the prime numbers in an array
CODE:
let fun = () => {var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]
numArray = numArray.filter((number) => {
for (var i = 2; i <= Math.sqrt(number); i++) {</pre>
 if (number % i === 0) return false;
 }
 return true;
});
console.log(numArray);
}
```

```
fun();
OUTPUT:
[2,3,5,7]
E.Return all the palindromes in an array
CODE:
var arr = ['red', 'malayalam', 12321, 'did', 'naveen'];
let isPalindrome = (el) => {
 const str = String(el);
 let i = 0;
 let j = str.length - 1;
 while(i < j) {
   if(str[i] === str[j]) {
    i++;
    j--;
   }
   else {
     return false;
   }
 }
 return true;
};
let findPalindrome = arr => {
 return arr.filter(el => isPalindrome(el));
```

```
};
console.log(findPalindrome(arr));
OUTPUT:
['malayalam', 12321, 'did']
```