

JAVASCRIPT

Task 3

Do the below programs in anonymous function and IIFE function

- **Print odd numbers in an array**

Anonymous

```
let odd = function (a) {  
  for(let i=0;i<a.length;i++) {  
    if(i%2!=0) {  
      console.log(i);  
    }  
  }  
}
```

IIFE

```
(function (a) {  
  for(let i=0;i<a.length;i++) {  
    if(i%2!=0) {  
      console.log(i);  
    }  
  }  
})(a);
```

- **Convert all the strings to title caps in a string array**

Anonymous

```
let title_caps = function(s) {  
  let a = s.split(' ');  
  let b = [];  
  for(let i in a) {  
    b.push(a[i].charAt(0).toUpperCase()+a[i].slice(1));  
  }  
  return b.join(' ');  
}
```

IIFE

```
(function(s) {  
  let a = s.split(' ');  
  let b = [];  
  for(let i in a) {  
    b.push(a[i].charAt(0).toUpperCase()+a[i].slice(1));  
  }  
  document.write(b.join(' '));  
})(s);
```

- Sum of all numbers in an array

Anonymous

```
let sum_of_array = function(a) {  
  let sum = 0;  
  for(let i in a) {  
    sum += parseInt(a[i]);  
  }  
  return sum;  
}
```

IIFE

```
(function(a) {  
  let sum = 0;  
  for(let i in a) {  
    sum += a[i];  
  }  
  console.log(sum);  
})([2, 4, 6]);
```

- Return all the prime numbers in an array

Anonymous

```
let prime = function (a) {  
  let b = a.filter((n) => {  
    for(let i=2;i<= Math.sqrt(n);i++) {  
      if(n%i === 0) {  
        return false;  
      }  
    }  
    return true;  
  })  
  return b;  
}
```

IIFE

```
(let prime = function (a) {  
  let b = a.filter((n) => {  
    for(let i=2;i<= Math.sqrt(n);i++) {  
      if(n%i === 0) {  
        return false;  
      }  
    }  
    return true;  
  })  
  console.log(b);  
})([2, 3, 4, 6]);
```

- Return all the palindromes in an array

Anonymous

```
let palindrome = function (a) {  
  return a.filter((m) => {  
    const s = String(m);  
    let i = 0;  
    let j = s.length - 1;  
    while(i<j) {  
      if(s[i] === s[j]) {  
        i++;  
        j--;  
      }  
      else {  
        return false;  
      }  
    }  
    return true;  
  })  
}  
  
console.log(palindrome(['sandy', 544, 121, 'mam', 'guvi']))
```

IIFE

```
(function (a) {  
  let b = a.filter((m) => {  
    const s = String(m);  
    let i = 0;  
    let j = s.length - 1;  
    while(i<j) {  
      if(s[i] === s[j]) {  
        i++;  
        j--;  
      }  
      else {  
        return false;  
      }  
    }  
    return true;  
  })  
  console.log(b);  
})(['sandy', 544, 121, 'mam', 'guvi']);
```