#### JAVASCRIPT FULL STACK DEVELOPER

#### TASK 3

- 1) Print odd numbers in an array
  - a) Anonymous Function:

## Code:

```
const readline = require('readline');
const inp = readline.createInterface({
  input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
  userInput.push(data);
});
inp.on("close", () => {
  var oddnum = function (given)
  {
    if(given[i]%2 != 0)
    {
       console.log(given[i])
    }
  }
}
oddnum ([1, 2, 3, 4])
});
```

# **Output:**

3

# b) Arrow Function:

```
const readline = require('readline');
const inp = readline.createInterface({
  input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
  userInput.push(data);
```

```
});
inp.on("close", () => {
var odd = (given) => {
for (var i in given)
  {
    if(given[i]%2 != 0)
    {
       console.log(given[i])
odd ([1,99,98,90,13,16,67])
});
```

1 99 13

67

2) Convert all the strings to title caps in a string array

a) Anonymous Function:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var titleCase = function (str) {
 str = str.toLowerCase().split(' ');
 for (var i = 0; i < str.length; i++) {
  str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);
 }
 return str.join(' ');
console.log( titleCase("zen class task 3")) ;
});
```

Zen Class Task 3

### a) Arrow Function:

## Code:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var titleCase = (str) =>
{
 str = str.toLowerCase().split(' ');
 for (var i = 0; i < str.length; i++) {
  str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);
 return str.join(' ');
console.log( titleCase("zen class task 3"));
});
```

#### **Output:**

Zen Class Task 3

- 3) Sum of all numbers in an array
  - a) Anonymous Function:

```
const readline = require('readline');
const inp = readline.createInterface({
  input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
  userInput.push(data);
});
inp.on("close", () => {
```

```
var sum = function(a)
{
  var total=0;
  for ( i in a)
  {
    total += a[i];
  }
  return total;
}
console.log(sum([10,20,40]))
});
```

70

# b) Arrow Function:

## Code:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var odd = (given) => {
var sum = (a) =>
  var total=0;
  for (i in a)
    total += a[i];
  return total;
}
console.log(sum([100,20,40]));
});
```

#### **Output:**

160

## 4) Return all the prime numbers in an array

a) Anonymous Function:

```
Code:
```

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var prime = function(given)
  var primearray=[];
  for(var i in given)
  { var x = "yes"
    for (var j=2; j < given[i]; j++)
    {
       if((given[i]%j == 0))
       {
         x = "no"
       }
   if(x=="yes" && given[i]!=1 && given[i]!=0)
   {
     primearray.push(given[i])
   }
  return primearray
}
console.log(prime([0,1, 2,3,4,5,6,7,8]))
});
```

#### **Output:**

[ 2, 3, 5, 7 ]

## b) Arrow Function:

## Code:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var prime = (given) =>
{
  var primearray=[];
 for(var i in given)
  { var x = "yes"
    for (var j=2; j < given[i]; j++)
    {
      if((given[i]%j == 0))
      {
         x = "no"
      }
   if(x=="yes" && given[i]!=1 && given[i]!=0)
     primearray.push(given[i])
   }
  return primearray
console.log(prime([7,9,8,4,2,3,1]))
});
```

## **Output:**

```
[ 7, 2, 3 ]
```

## 5) Return all the palindromes in an array

a) Anonymous Function:

### Code:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var palindrome = function(a)
for(var i in a)
  var x= a[i].toString().split("").reverse().join("")
  if(x==a[i])
  {
    console.log(a[i]);
  }
palindrome(["malayalam", 99, "mom", "happy", 5, 198])
});
```

#### **Output:**

malayalam 99 mom

#### b) Arrow Function:

```
const readline = require('readline');
const inp = readline.createInterface({
  input: process.stdin
});
const userInput = [];
```

```
inp.on("line", (data) => {
    userInput.push(data);
});
inp.on("close", () => {
    var palindrome = (a) => {
    for(var i in a) {
        var x = a[i].toString().split("").reverse().join("")
        if(x==a[i])
        {
            console.log(a[i]);
        }
    }
    palindrome(["malayalam" , 99 , "mom", "happy", 909, 198])
});
```

malayalam 99 mom 909

- 6) Return median of two sorted arrays of same size
  - a) Anonymous Function:

```
const readline = require('readline');
const inp = readline.createInterface({
  input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
  userInput.push(data);
});
inp.on("close", () => {
  var median = function(a,b)
{
  a = a.sort(function(a,b){return(a-b)});
  b = b.sort(function(a,b){return(a-b)});
  c=a.concat(b).sort(function(a,b){return(a-b)})
  var median = ((c[((a.length)-1)]+c[(a.length)]) / 2)
```

```
median =(median.toFixed(2));

return median;
}
console.log(median([0,22,89,86] , [11,13,16,77]))
});
```

19.00

## b) Arrow Function:

## Code:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var median = (a,b) =>
{
a = a.sort(function(a,b){return(a-b)});
b = b.sort(function(a,b){return(a-b)});
c=a.concat(b).sort(function(a,b){return(a-b)})
var median = ((c[((a.length)-1)]+c[(a.length)] ) / 2)
median = (median.toFixed(2));
return median;
console.log(median([0,22,89,86],[11,13,16,77]))
});
```

#### **Output:**

19.00

## 7) Remove duplicates from an array

a) Anonymous Function:

```
Code:
```

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var nodup = function(a)
  var b = a.slice(0,a.length)
  var c=[];
for (var i in a)
 var count=0;
  for( var j in b)
  {
    if(a[i]==b[j])
       count+=1;
       delete b[j]
       if(count==1)
       c.push(a[i])
}
return c;
console.log(nodup ([1,1,1,1,2,2,2,3,4,5,6,6,7]))
});
```

```
Output:
```

```
[ 1, 2, 3, 4, 5, 6, 7 ]
```

## b) Arrow Function:

# Code:

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var nodup = (a) =>
  var b = a.slice(0,a.length)
  var c=[];
for (var i in a)
 var count=0;
  for( var j in b)
  {
    if(a[i]==b[j])
       count+=1;
       delete b[j]
       if(count==1)
       c.push(a[i])
}
return c;
console.log(nodup ([1,1,1,1,"apple","apple"]))});
```

# Output:

```
[ 1, 'apple' ]
```

8) Rotate an array by k times and return the rotated array

a) Anonymous Function:

```
Code:
```

```
const readline = require('readline');
const inp = readline.createInterface({
 input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
userInput.push(data);
});
inp.on("close", () => {
var rotate = function(a,k)
  for(var i=1; i<=k; i++)
  {
    a.unshift(a[(a.length)-1])
    a.pop();
 //console.log(a)
  return a;
console.log(rotate([1,2,4,5,6],2))
)};
```

#### **Output:**

```
[ 5, 6, 1, 2, 4 ]
```

## b) Arrow Function:

```
const readline = require('readline');
const inp = readline.createInterface({
  input: process.stdin
});
const userInput = [];
inp.on("line", (data) => {
  userInput.push(data);
});
inp.on("close", () => {
```

```
var rotate = (a,k) =>
{
    for(var i=1; i<=k; i++)
    {
        a.unshift(a[(a.length)-1])
        a.pop();
    //console.log(a)
    }
    return a;
}
console.log(rotate([1,2,5,6],2))
));</pre>
```

[ 5, 6, 1, 2 ]