JAVASCRIPT FUNCTIONS

INCLUDING ES6 CONCEPTS

FUNCTION TYPES

```
☐ FUNCTION DECLARATION
      FUNCTION NAME () {
       STATEMENT;
☐ FUNCTION EXPRESSION
      CONST NAME = FUNCTION () {
       STATEMENT;
```

FUNCTION TYPES

```
☐ ARROW FUNCTION
```

```
• CONST NAME = () => {

STATEMENT;
```

FUNCTION DECLARATION

FUNCTION NAME (PARAMETERO1, PARAMETERO2) {
 STATEMENT;
 }
 NAME(ARGUMENTO1, ARGUMENTO2);

FUNCTION EXPRESSION

```
• CONST NAME = FUNCTION (PARAMETERO1, PARAMETERO2) {

STATEMENT;
}
```

NAME(ARGUMENTO1, ARGUMENTO2);

ARROW FUNCTION

```
    CONST NAME = (PARAMETER01, PARAMETER02) => {
    STATEMENT;
}
```

NAME(ARGUMENTO1, ARGUMENTO2);

RETURNING VALUES

```
CONST ADD = (A, B) = 
 LET C = A + B;
 RETURN C;
LET SUM = ADD(2, 2);
CONSOLE.LOG(SUM)
```

RETURNING VALUES — EXAMPLE

```
const calcProd = function (products, tax) {
275
       let total = 0;
276
       for (let i = 0; i < products.length; i++) {
277
         total += products[i] + products[i] * tax;
278
279
       return total;
280
281
282
     let productC = calcProd([20, 30, 40], 0.2);
283
     console.log(productC);
284
COL
```

SET TIME OUT

SETTIMEOUT(FUNCTIONNAME/ANONYMOUS FUNCTION, MILLISECOND)

```
//Set Time Out
setTimeout(() => {
    let employees = ["Faraz", "Aqib", "Shahab", "Ali"];
    console.log(employees);
}, 3000);
```

SET TIME OUT - EXAMPLE

SETTIMEOUT(FUNCTIONNAME/ANONYMOUS FUNCTION, MILLISECOND)

```
235  Let box = document.querySelector("#box");

236

337  setTimeout(() => {

238  box.style.width = "500px";

239  }, 3000);
```

FOREACH METHOD - EXAMPLE

FOREACH METHOD - EXAMPLE

```
list = document.querySelector(".people");
324
325
    html = ``;
326
327
    const students = ["Aqib", "Aqib", "Aqib"];
328
329
    students.forEach((person) => {
330
      html += `${person}`;
331
    });
332
333
   list.innerHTML = html;
334
```

CALLBACK FUNCTION

- ANY FUNCTION THAT IS PASSED AS AN ARGUMENT IS CALLED CALLBACK FUNCTION.
- A CALLBACK IS A FUNCTION THAT IS TO BE EXECUTED AFTER ANOTHER

FUNCTION HAS FINISHED EXECUTING - HENCE THE NAME 'CALL BACK'.

CALLBACK FUNCTION

```
CONST FUNC = FUNCTION(CALLBACKFUNC) {
   LET VALUE = 20;
    CALLBACKFUNC();
• }
• Func(function(value) {
    CONSOLE.LOG(VALUE);
• })
```

CALLBACK FUNCTION

```
const mesgOne = (day, time) => {
312
       console.log(`Hello, Today is ${day}`);
313
     time();
314
     };
315
316
     const mesgTwo = (time) => {
317
       time = "Morning";
318
       console.log(`Good ${time}!`);
319
320
     };
321
     mesgOne("Monday", mesgTwo);
322
```