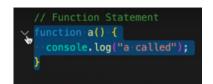
#### First Class Functions ft. Anonymous Functions

Friday, 18 August 2023 8:00 PM

#### -> Function statement;



This way of creating a for is called a for

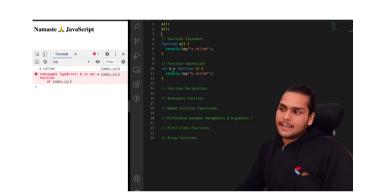
### -> Function Expression;



When we assign a f to a variable then this way of creating a f is called f expression.

# -> Difference b/w for statement and for expression:



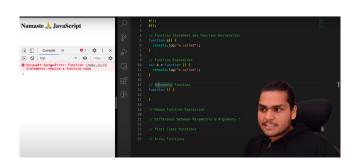


The major difference blu both is hoisting. During memory creation phase TS allocates 'undefined' to b' and stones a' as it is in memory. So if we try to do console log (b); then we will get undefined but if we try to invok b() then it will give us type Error: b is not a function.

Function declaration: Function statements are also known as

```
// Function Statement aka Function Declaration
function a() {
    console.log("a called");
}
```

Ahony mous function i Ahony mous f' is basically a f'statement with no name. But according to ECMAs cript a f' statement must have a name.



→ So this results to a syntax error.

So by looking at above one can say that what will be the use of anonymous Prs?

-> They are used in a place where to are used as values, 50, they bosically can be used to assign values to variables and ultimately become

en oxpressions. var b = function () {
 console.log("b called");

-> Manel function expression? They are same as F expressions but we do not use anonymous for and instead we use a normal

var b = function xyz() { console.log("b called");

# a called index\_lists to committee to the committee to the called index\_lists to committee to the called index\_lists to committee to the called index\_lists to committee to com

We can't call ryz() and it gives us reference Error because ryz is in local sape and is not present in global scape. But if we try to access super inside reyz() then it is fine.



### -> Difference b/w parameters and arguments:

Parameters are local variables of a for they can't be accessed outside the function and over the identifiers which receive values. Arguments are the variables that are passed to at Luring or cell of invocation.

```
console.log("b called");
```

-> First class functions: The ability of the be used as values it known as First class f's-

We can pass P's are arguments or even return of from another P". We can assign to a variable. This eabilities of its make them first class



(passing anohymous Ph as argument)



(bassing named for as argument)



(anony mous on returned from another of)



(named pr retruined from another tr)

Note: The ability of the be used as values makes them first class citizens.

Note: If we use let & const instead of var in a frexpression, then they are simply treated like normal variables which follow all rules of hoisting & are in temporal deadzone initially.

-> Arrow functions: This was introduced in ESG.