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First Class Function ft. Anonymous functions

Topics to cover :- function statement

- function Expression

- function Declaration

- ^{Anonymous} function Function

- Named Function Expression

- Difference between parameter & argument

- First Class function

- Arrow function

① Function statement vs function Expression

→

```
function a() {  
  console.log("a called");  
}
```

O/p a called

→

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

O/p b called

→ a way to create function

→ a way to create function

→

```
a();  
function a() {  
  console.log("a called");  
}
```

O/p: a called

→

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

O/p: TypeError: b is not a function.

* Differ in hoisting in memory location phase of execution context exact copy of a() will be started as () is complete function while b will a variable and hence it will be undefined. If you try to run as a function throws an Error.

② Function Declaration is same as function statement.
function Declaration aka function statement

③ Anonymous Function
function without a name

```
function () {  
    // code  
}
```

← Invalid Syntax → Syntax Error:
Requires function name.

- Do not have its own identity
- It is invalid statement.
- These are used wherever we want to function as a value.

```
var b = function () {  
    // code  
}
```

← Function Expression

④ Named Function Expression

```
var b = function x() {  
    console.log("b called");  
}
```

b(); → b called

x(); Reference Error: x is not defined.
because x() is created as local function only. If you try to access in out of scope it will give Reference Error.

④ Argument Vs parameter

```
var x = function (param1, param2) { }
```

label identifier are
called parameter
these are local value
value passed are
called argument

x(1, 2)

⑤ First class function

passing function inside a function as
an argument.

eg:-

```
var b = function (param) {  
  console.log(param);  
}  
function xyz() { }  
b(xyz);
```

O/P of xyz()

var b = function (x) {

console.log(x);

}

→ b called

x(): Reference Error: x is not defined

because x() is called as local function only. if you try to
access it out of scope it will give Reference Error.