









```
// Deep about Event listeners
// Closures Demo with Event Listeners
// Scope Demo with Event listeners
// Garbage Collection & removeEventListeners
function attachEventListeners() {
 let count = 0:
 document.getElementById("clickMe").addEventListener("click"
   console.log("Button Clicked", ++count);
attachEventListeners();
```

classmate

CALLBACK functions in is ... what are callback functions in 15? as functions are first wass cityzens. Iso a function pass on to another function is a callback function. Gives us the access to whole Asyme world in a synchronous single threaded language. (com airiem async nature) Example: Asyme Task: (autout Settimeout (pune () 3.3, 3006); function x 19 5. 3 function yt x (function y () 5.33) 4 Cauback gain asyne nature After 3 swood, call stack appears magually Js only has I call stark, known as the main thread. If any operation blocks the call stack, Dit means blouring the main thread -* If we don't have callback functions, we Provident have arrieved asyme nature execution in is.

Classmate I Event listeners: (weate abutton with id-> disk mo document - getElementBy Id ("diskme") - add Euntlistener (" dick "furnition" yt) & console. log ("button diessed"); So where whenever the button is diered the callback function is called? & xyz will be pushed into iall stark & then # llosure demo along with event - listeners: Garbage Collection and remove Frunt listeners. It's a good practise to sumous event listener They are heavy bleause they carry doswys and takes memory I ever when call stack is empty, then also program don't free up memory, cause we don't know when (Trats why event listener are heavy)
1000 of eventlistener can make our site lag. If we sumone this event lestener, all the losure under it / stope would be gartage

executed.

~ SS (Screenshot)

Collected.

action listener is called.