## Day 11 notes

✓ Key  Takeaway	Closures
Learning Date	@July 8, 2025
Module	Module 2: Deep Dive into Functions & Objects
Status	Done
✓ Topic	✓ Day 11: Closures
	https://www.youtube.com/watch? v=IA7CGz3iHyl&list=PLIJrr73KDmRw2Fwwjt6cPC_tk5vcSICCu&index=11

## **Closures:**

A closures is a function that allow to access to outer function even after the outer function has been executed.

```
// lets anoter example.......
function outerCount() {
   let count = 0;
   return function innerCount() {
      count++;
      console.log(count);
   };
}
const retVal = outerCount();
retVal();
retVal();
retVal();
```

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## "The

count variable retains its value and cannot be reinitialized."

```
//_____Closures ⇒ Real World Example(Banking System)_
function createBankAccount(initialBalance) {
 let balance = initialBalance;
 return {
  deposite: (amount) \Rightarrow {
   balance = balance + amount;
   console.log("Deposited", amount, "Current balance", balance);
  withdraw: (amount) \Rightarrow \{
   if (amount > balance) {
    console.warn("Insifficient balance");
   } else {
    balance = balance - amount;
    console.log("Withdrawn", amount, "Current balance", balance);
   }
  },
  checkBalance: () ⇒ {
   console.log("Current Balance", balance);
  },
};
}
const tapaScriptAccount = createBankAccount(500);
console.log(tapaScriptAccount.withdraw(200));
console.log(tapaScriptAccount.withdraw(50));
console.log(tapaScriptAccount.withdraw(20));
console.log(tapaScriptAccount.checkBalance());
```

## **Usefulness of closures:**

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- You can keep the variables private without exposing them.
- You can create a function factory
- You can stop variable pollution.
- You can keep a Variable alive between multiples calls

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