Access Rights

In this lesson, we'll learn about access rights of inheritance.

WE'LL COVER THE FOLLOWING ^

- Scope of access rights
- ls-a relations
 - public
 - protected
 - private

Scope of access rights

The access rights of the inheritance determine which functionalities of the base class can be used in the derived class.

- A class can be derived public, protected, or private from its base class.
- For classes, the default access right is private; for structs, it's public.

```
class BankAcc: Acc{...} is the same as class BankAcc: private Acc{...}
```

Is-a relations

The derived class and the base class have an is-a relationship. Public inheritance is called an is-a relationship because the derived class has the same interface as the base class. The derived class is a specialization of the base class.

public

```
class BankAccount: public Account{ ...
```

public and protected members in the Account class are public and

protected in the bankAccount class.

protected

```
class BankAccount: protected Account{ ...
```

public and protected members in the Account class are protected in the BankAccount class.

private

```
class BankAccount: private Account{ ...
```

public and protected members in the Account class are private in the BankAccount.

In the next lesson, we'll look at the examples of inheritance.