CPP-04

- * Intuition Ivalues, orvalues
- on on (modue.)
- acicomment operdu (=)
- Dowalnes are all other coprissions.
- => Explicit owdere defined using kk
- en Ivalue to an onvalue.
- -> The value after more is undefined.
- -> Moving a vanichle tonarsfur Ownership.
 of a its presources to another variable.
- * Custom operator foir a class
 - => Openations are functions with a signature: < RETURN_TYPE> openation < NAME> (< PARAMS>)
- => <NAME> orepresents the target operation, e.g. >,<,=,==, << etc.
- * Copy Constructor
 - -> Called automatically when object is apried.
 - => Foon a class My Class has the signature:
 My Class (const My Classic Other)

* Copy asignment opendur la Called automatically when the object is assigned a new value from an LVelve. => For class My Class has a signature: \mathcal{Y} My Classk openator = (const MoClassk other) MyClass a; Il Calling default Construction MyClass b=a; // Colling Copo construction a=b; 11 Colling Copy assignment constructor. to get a eneferance to the curvet object. p. Me. * More construction > Called adomatically when the object is nc: -> For a class My Class has a signature My Class (My Class the other) My Class C = Std:: more (a) // More Construction * Move assignment operator => Called automatically when the object is adassigned a new value from an Ruduc

> Fan a class MyClass has signeduc: * MyClaux operator= (My Classet other) 1 b= Std:: more (c) // Move assignment openden -Rule, of thumb for Constructors & openations. > None of them defined: all autogenerated Amy of hom defined: none atogenest. · Except for the main Constritur) -> Use = default to use default implementation. * Inheritance => Clauses can imperial data and functions from other dans. => There are 3 types of inheritance in C++; GOOGIE SIFET (1) Public -> Anheritance Keeps all (2) Protected · cicless Specificons of · he base class (3) Private Class Desired: public Base { > Derived still gets its own special functions: Constructors; distruction, assignment operdos-

