## (#) Polymorphism

- . The word polymorphism means having many forms
- · we can define polymorphism as the ability of a message to be displayed in more than one form
- -> Compile Time polymorphism
- whenever an object is bound with its functionality at the compile time this is known as compile time polymorphism.
- · The call is resolved by the compiler.
- · It is also known as static binding, Early binding, overloading

observed the film formand a server of the se

- . It is achieved by function and operator overloading.
- · It is less flexible
- · Inheritance is not involved.
- -> Run Time polymor phism
- sun time, this is known as runtime polymorphism.
- . The call "is not resolved by the compiler

. It is also known as dynamic binding, late the binding, Rules of function overloading and overriding . The function must have the same name

The function must have different types of parameters

The function must have different set of parameters

The function must have different sequence of parameters · It is achieved by wirtual function and painter . It is more flexible · Interitance is involved -> Operator Overloading Difference between function overloading and operator overloading · operator overloading allow operator to have their extending meaning. - function overloading · You can orurload operator such as '+', '-', \*'()', []' · function overdeading allow us to call it in multiple ways . Operator overloading means adding extra functionality for a · You can overload the function with the same name certain operator. but with different parameter. . when an operator "a overloaded, the operator has different · hunction overloading means using a single name and giving more functionality to it. meaning . · Operator overloading is a compile - time polymorphism name has different interpretation depending on it's signature Rules of Operator Overloading . Lunction overloading is a feature of Object - Oriented programming . Only built - in operator can be overloaded. · Example of polymorphism in c++ . Arity of operator cannot be changed . Precedence and associativity of operator cannot be changed vivo T2x · SuiAL

