

## NAME EQUIVALENCE :

TWO type expressions are 'name equivalent' if and only if they are identical, they can be represented by same syntax tree with same labels.

## FUNCTION OVERLOADING :

- Multiple function can have a same name but different parameters.
- This allows one function to perform different tasks depending on the context of call.
- The function must differ either by number or type of parameters.

## HOW FUNCTION OVERLOADING WORKS ?

NUMBER OF PARAMETERS : → Differing no. of parameters

Eg :  
void display ( int i )  
void display ( int i , int j )

TYPE OF PARAMETERS : → Same no. of parameters as long as types are different

Eg :  
void display ( int i )  
void display ( double d )

ORDER OF PARAMETERS : → no. of types of parameters are same then order can be changed

Eg :  
void display ( int i , double d )  
void display ( double d , int i )

## OPERATION OVERLOADING :

→ Different implementation to a single operator based on the datatypes on which they are operated.