

Tom. Get Age()



SPECIFICATION (INTERFACES)

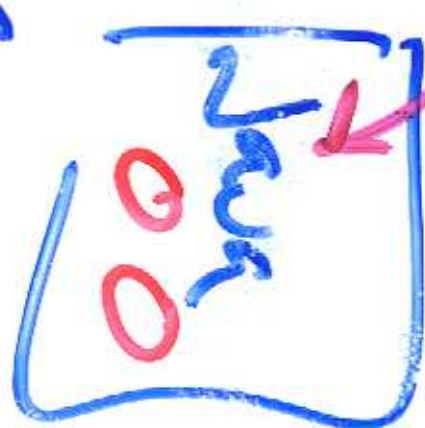


"WRAPPING" of "implementation"

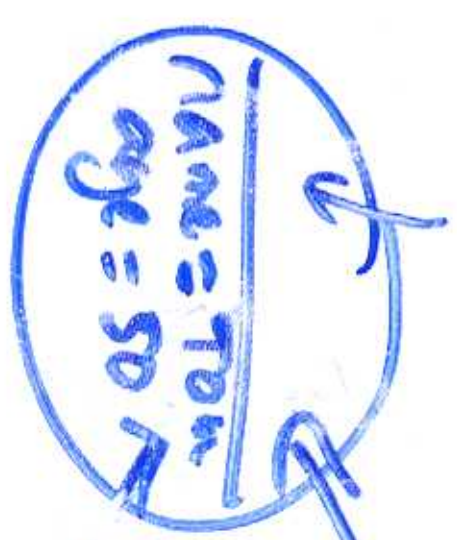


Tom

Get Age ()  
Get Name ()



object (C++)



interface implementation



TM. GetAge()

← Should be defined

(11-3)

OK

reference

← operation in INTERFACE name (visible to clients)



IDL (Interface Definition language)

Student.idl

Java types

CDR

CDR (Common Data

Req. X-C++)

(Java)



ORB (Object Request Broker)



ADAPTOR

IAI

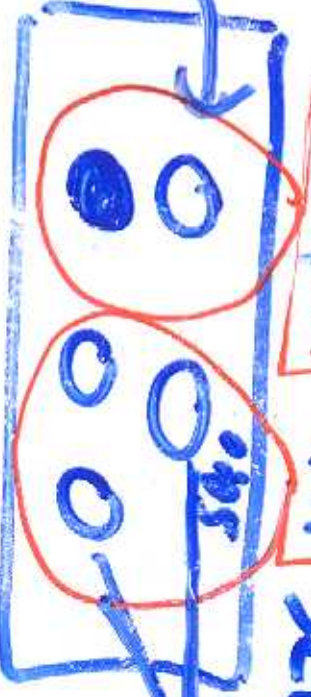
SERVER

CDR

↓ C++



(C++) implementation of skeleton



instances of imp. class

1st step: Get "reference" (e.g Tom)

reference # OIID (object identity)

OIID = "pointer" which identifies an object

independently of its value

oid = 77772

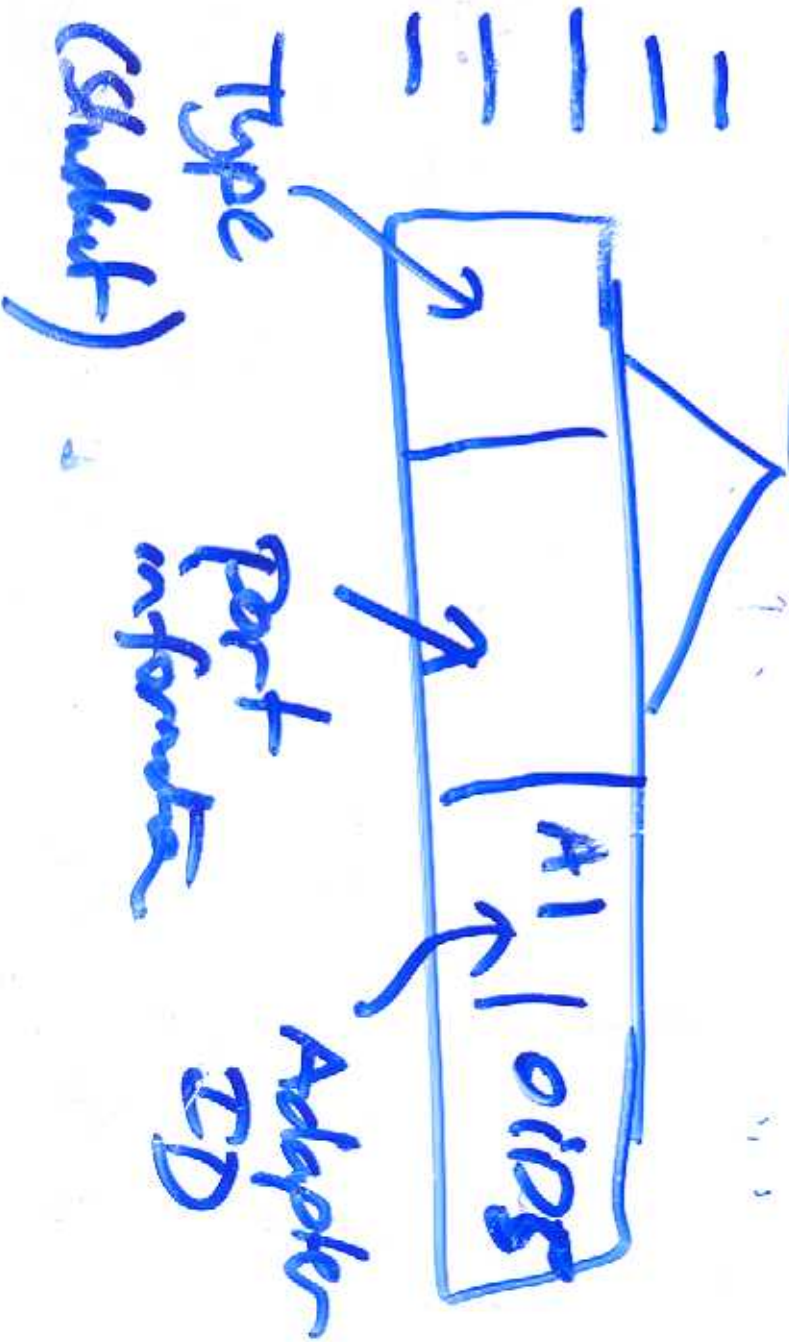


oid of an "implementation" object.

11-4

a reference "Tom" will be returned by Trader/Managers Service

2nd Step : Tom.GetAge()



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ORB (Obvut Request Broker)  
will parse, reference and forwards  
the request <sup>to</sup> the appropriate  
Adapter (ie A1)

3rd step : Adapters forwards the  
request to the implementation  
object (OIDS)