

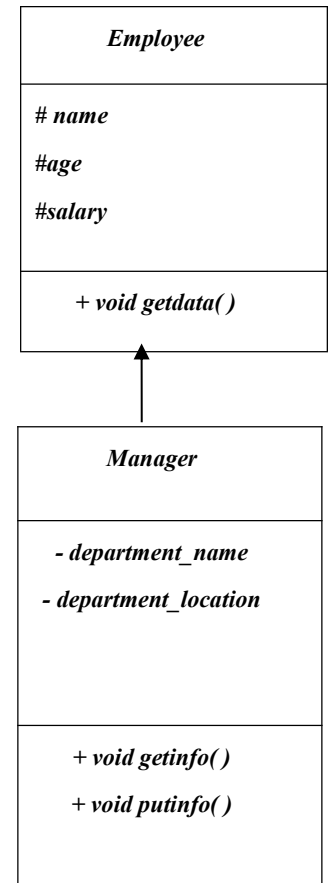
## LAB 7

### INHERITANCE IN C++

In this lab, students shall write and run different programs related to *different types of inheritance* in C++ programming language. Following programs with different task number shall be covered in this lab:

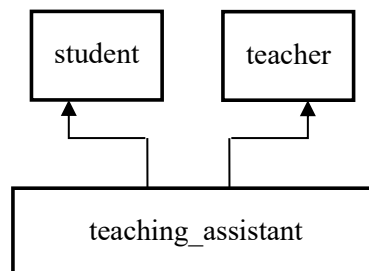
#### Task #1:

WAP in CPP to illustrate the concept of single inheritance using following diagram.



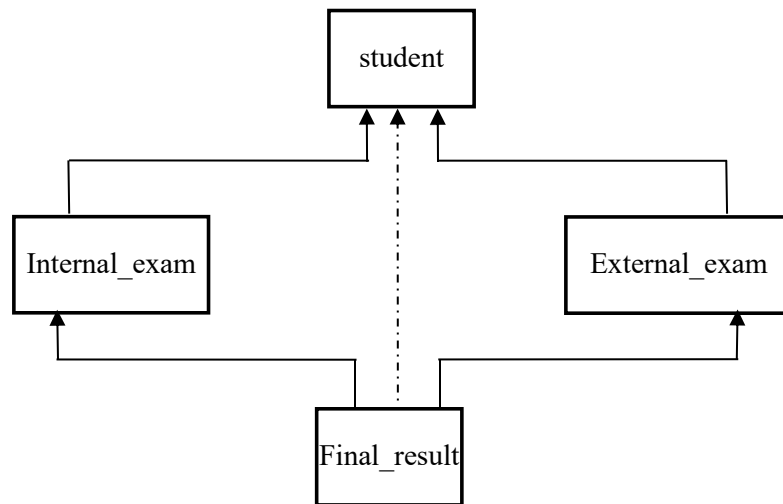
#### Task #2:

WAP in CPP to illustrate the concept of multiple inheritance using following diagram. Also use the concept of function overriding assuming suitable data members and member functions.



**Task #3:**

WAP in CPP to illustrate the concept of multi-path inheritance and virtual base class using following diagram.



**Task #4:**

WAP in CPP to illustrate the concept of constructor and destructor invocation in single inheritance.

**Task #5:**

WAP in CPP to illustrate the concept of constructor and destructor invocation in multiple inheritance.