Assignment1

InheritanceSample.cpp

Student class

- Data – Roll Number
- Methods – Get roll number, display roll number

Test class – derive from Student class

- Data – SubjectScore1, SubjectScore2
- Methods – Get Marks, Display Marks

Class result – drive from test

- Data – total score
- Methods – Display score

Main – Create result object, accept roll number, marks and then display all.

Assignment2

In the above layout of classes, add the following class
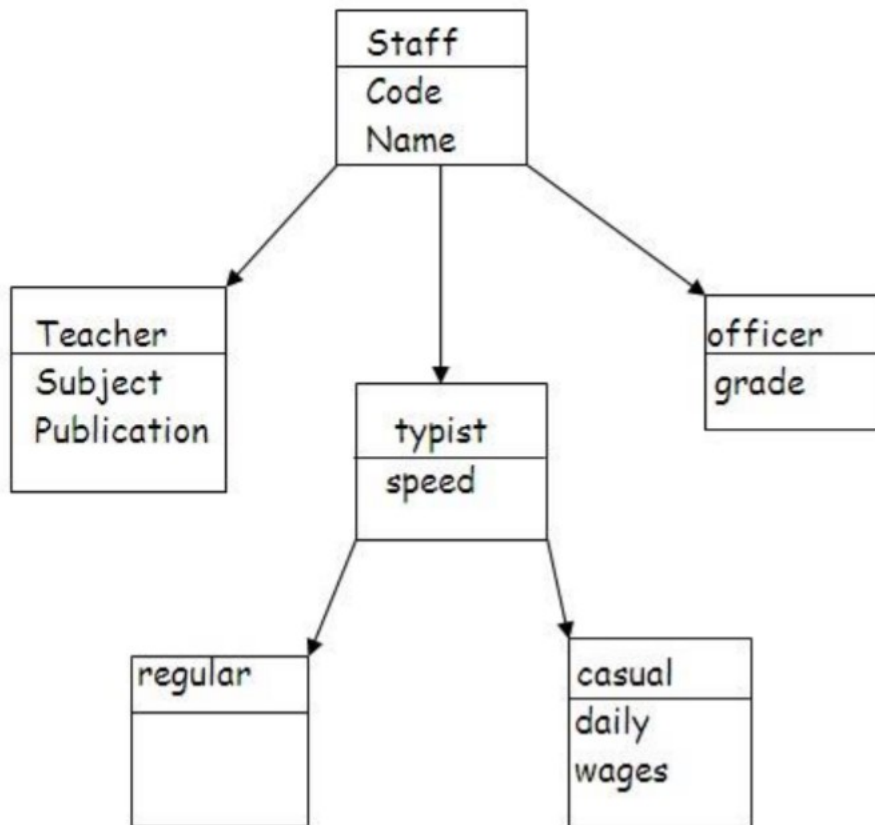
Sports class

Data – score

Methods – get score and display score

Inherit Result from Test class and Sports class

Assignment 3

An educational institution wishes to maintain a database of its employees. The database is divided into a number of classes whose hierarchical relationships are shown in following figure. The figure also shows the minimum information required for each class. Specify all classes and define functions to create the database and retrieve individual information as and when required.

Assignment 4

Consider a class network of the following figure. The class master derives information from both account and admin classes which in turn derives information from the class person. Define all the four classes and write a program to create, update and display the information contained in master objects.

Person
Name
Code

Account
Pay

admin
experience

Person
Name
Code
Experience
Pay