Assignment-1

1. The two cases of Hierarchy in the given problem can be found at:

* Students:

Students can be postgraduate or graduate.

We can create Students class and make Postgraduate and Graduate as subclasses to Students class.

* Lecturers:

Lecturers can be fulltime lecturers or visiting members.

Create Lecturer as a class and create 2 subclasses for it namely Fulltime and Visitor.

1. Common behavior among day scholar, host-elite, graduate and post graduate students:

* All the students should have their unique id and password in order to access the system.
* Students can view their marks and attendance history using the system.
* All the students should select 2 electives.
* Paying Semester fee is mandatory for all students.

1. Users of the system:

* Admin staff
* Student
* HOD
* Lecturer

1. Details needed in order to generate that report:

* As it is the work of admin staff to register the students to the course they opted,

They already have the details of student id, name and the course registered.

* As the system already maintains the history of all the lecturers who have handled the course throughout the semester, admin staff can have the names of lecturers (for a certain course) from the HOD who has access to the lecturers and course information.
* Finally, Marks scored by the students can be retrieved from lecturers.