

Assignment-2

a) The attributes of student class:

- Hidden:
 - studentId
 - password
- Exposed:
 - studentName
 - residentialStatus
 - fees
 - coursesTaken
 - marksScored

b) Calculation of grade:

- We need to only write one method namely calculateGrade() in the Student class and that can be overridden by the sub classes of Student class.
- As the sub classes override the method, the name and signature of the method would be same.
- The functionality of the method would be same for day scholar and host-elite students. But when it comes to post graduate and graduate students the grading functionality may change.

c) Fees for students:

- We only need to write one method in the Student class namely totalFees() and that can be overridden by Dayscholar and HostElite subclasses.

d) OOP features implemented:

- Inheritance and Polymorphism will be implemented in b & c.
- Encapsulation is implemented in a.