**README**

1. Importance of the XUnit tests:

* Easier to test get() function in LinkedList class as test case for testing exception was helpful.
* Even after refactoring the code, adding new test cases was not required.
* When new strategy pattern was added, testing it with the previous test case of add was easier.
* To test the get() method of LinkedList wrote test cases:

1. To test boundary conditions
2. To handle Invalid index exception
3. To test valid index

So when these tests passed, I was confident of correct working of get() function in LinkedList class.

* While writing a test case, thought about different conditions which will occur, this helped in writing the functions and classes specifically a NullNode class.

1. Null object pattern

Implementation of Null object pattern removed null checks in:

1. add() method of LinkedList class, if list is empty then new node is created
2. isEmpty() method of LinkedList class.
3. hasNext() and hasPrevious() methods in Iterator
4. OnProbationDecorator

We need the students that are on probation. So just need to modify toString, toArray() and iterator methods. This is not the core responsibility of a LinkedList class.

Information hiding is achieved because of :

1. Modified iterator : so that can access the required data only.

(Student who don’t have GPA less than 2.85 will be ignored)

1. toArray and toString : returns the data traversed by this modified iterator.
2. Yes, I am able to use the methods forEach and stream() on the Linked List class.