

Java Assignment 2

1. Refer to Question No. 4 from **Java Assignment 1** (“Quote of the day”), implement a GUI version of the problem (“Quote of the day”) using **JFrame/Applet**. Extra benefit will be given if implemented using **thread**.

2. Write a program `LinikedListApplet.java` that implements common functionalities like inserting and deleting a node in the base class called `Basic LinkedList`.

Insert_Front: Inserts an element at the beginning of the list.

Insert_Rear: Inserts an element at the rear end of the list.

Del_Front: Deletes the element at the beginning of the list.

Also design an interface that will have the variable features like `search()`. Derive two classes from `BasicLinkedList`, one will store student objects (of program 1) and the other will store `String` objects (words/sentences) in the list. Implement `search()` in the two classes :

Search: To search for a value in the list, type the value in the text field (roll no for Student and a word for the other derived class) and click the “Search” button.

Build an applet to test the functionalities.

