**CS 114 Assignment 4**

**Topic: Double List (4 points)**

**For each task, submit your source java code file (no need to submit files downloaded from Moodle) with detail comments electronically.**

2. **(1 point)**

**Write a main test program to read records from test.dat file.**

**Append all records to the end of the Dlink. Display the whole list**

**and size of the Dlink after complete. Access the 5th records on the**

**Dlink and display the value of the record. All Dlink, LList ,List**

**classes and test.dat are provided.**

1. **0.5 point**

**Continue the same program to allow user to enter value of the**

**record from console then delete the record from Dlink. Display**

**message if the value entered was not on the list. Display the full list**

**and size of the Dlink after deletion. Continue the process until**

**terminate by user or Dlink become empty.**

1. **(0.5 point)**

**Continue the same program to allow user to enter new record**

**from keyboard and insert to the beginning of Dlink.**

**Reject the input if the value is already exist. Continue the process**

**until user terminate or Dlink is full.**

1. **(2 points)**

**Add to the LList.java class implementation a member function to reverse the order of the elements on the above Dlink. Display the Dlink after the reverse.**