

**CS112: Computing Laboratory**  
**Assignment :- 8**  
**Date: 08/04/2020**

**For proper indentation and commenting in the code: 10 marks**

**For below questions: 10+10+10+10 =40 marks**

**Total marks: 40 + 10 = 50 marks**

- 1) Create a linked list(at least 10 elements) and do the following task in the link list
  - a) Insert an element after a given no.
  - b) Delete an element after a given element in the link list.
- 2) WAP to delete two consecutive elements after the middle element of the link list using one variable pointer.
- 3) WAP to find the kth element from the tail of the linked list ?
- 4) WAP to shift right each element of the linked list by 2 .

Consider example `1->2->3->4` rotate the list by 2. `3->4->1->2`.

**Instructions to follow:**

- 1) Implement all the above programs and give the file names as follows:
  - a) Name of program file: question\_1.c
  - b) Name of output file: output\_1.out
  - c) Run with few sample inputs and mention the details: execution\_1.txt

\*\*\* Note that the format of details in execution\_1.txt would be:

Run1: Input: 4                      Output: 567

Run 2: Input: 4                      Output: 5678

-----

2) Create a zip file which includes all the above files naming it **<Student\_EmailID>.zip** and upload the zip file through google form:

3) **Deadline of submission :- 6 PM 9/04/2020 (sharp)**

4) Feel free to contact your respective TA for any query.