**Brac University (Department of Computer Science and Engineering)**

**CSE220: Data Structure**

Lab Midterm Examination (CO3)

Summer 2023

Section: 25

Set A

***Stack to Reverse:***

Assuming you have a Linked List, now you use a stack to build another linked list in the reverse order having only the even numbers, using only stack functions such as push() and pop() methods.

| Driver Code | Output |
| --- | --- |
| arr=[12,0,1,5,7,2,3,8]  head = linkedList(arr)  print(“xxxxxx1xxxxxx”)  printList(head)  print(“xxxxxx2xxxxxx”)  stack = Stack()  head = stack.reverseList(head)  printList(head2)  print(“xxxxxx3xxxxxx”) | xxxxxx1xxxxxx  12→0→1→5→7→2→3→8  xxxxxx2xxxxxx  8→2→0→12  xxxxxx3xxxxxx |