Nishit Prakash Tare s2-43

```
class LL:
   def init (self):
        self.head = None
        self.tail = None
   class Node:
       def init (self, value):
            self.value = value
            self.next = None
   def insertNode(self, value):
        new node = self.Node(value)
        if self.head is None:
            self.head = new node
            self.tail = new node
            return
        self.tail.next = new node
        self.tail = new node
   def printLL(self):
        cnode = self.head
        while cnode:
            print(cnode.value, end=" ")
            cnode = cnode.next
        print()
   def rotateLL(self, k):
        if not self.head or k == 0:
            return
        length = 1
        temp = self.head
        while temp.next:
            temp = temp.next
            length += 1
        k = k % length
        if k == 0:
            return
        prev = None
        new tail = self.head
        for _ in range(length - k):
            prev = new tail
            new tail = new tail.next
        prev.next = None
        temp.next = self.head
```

```
self.head = new_tail
self.tail = prev

list_values = [1, 2, 3, 4, 5]
ll = LL()
for i in list_values:
    ll.insertNode(i)

ll.printLL()
ll.rotateLL(2)
ll.printLL()
1 2 3 4 5
4 5 1 2 3
```