



In Class Assignment_1
ECE 3060_Data Structure and Algorithms
I Semester 2023-2024

1. Count the number of even nodes and the number of odd nodes in a linked list.

SAMPLE INPUT

Enter Elements: 1

Enter Elements: 2

Enter Elements: 3

Enter Elements: 4

Enter Elements: 5

SAMPLE OUTPUT

The nodes in the linked list: 1 -> 2 -> 3 -> 4 -> 5

Number of even nodes in the linked list = 2

Number of odd nodes in the linked list = 3

2. Rotate the linked list in the right direction by K steps and then print the linked list.

SAMPLE INPUT

Enter Elements: 1

Enter Elements: 2

Enter Elements: 3

Enter Elements: 4

Enter Elements: 5

Enter Rotate Times: 2

SAMPLE OUTPUT

Before Rotation: 1 -> 2 -> 3 -> 4 -> 5

After Rotation 2 times: 4 -> 5 -> 1 -> 2 -> 3