**EXPERIMENT NO.3**

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Aim:** Write a program to check whether the length of given linked list is even or odd.

**Algorithm/Pseudo-Code:**

1. Insert elements of linked list
2. Count elements using loop while temp!=null and c++, temp=temp.next

return c

1. Find if no of elements are odd or even

evenOdd(count)

1. If count%2==0 then even
2. Else odd

**Program:**

class LinkedListLength

{

Node head;

void insertatbeg(int item)

{

Node newnode=new Node();

newnode.data=item;

newnode.next=head;

head=newnode;

}

int count()

{

Node temp=head;

int c=0;

while(temp!=null)

{

c++;

temp=temp.next;

}

return c;

}

void evenOdd(int count)

{

if(count%2==0)

System.out.println("its even");

else

System.out.println("its odd");

}

void printlist()

{

Node temp=head;

while(temp!=null)

{

System.out.print(temp.data+"->");

temp=temp.next;

}

}

public static void main(String[] args)

{

LinkedListLength list = new LinkedListLength();

list.insertatbeg(10);

list.insertatbeg(20);

list.insertatbeg(30);

list.insertatbeg(40);

list.insertatbeg(50);

list.insertatbeg(60);

list.insertatbeg(70);

list.insertatbeg(80);

list.insertatbeg(90);

list.insertatbeg(100);

System.out.println("list is:");

list.printlist();

int count=list.count();

System.out.println("\n");

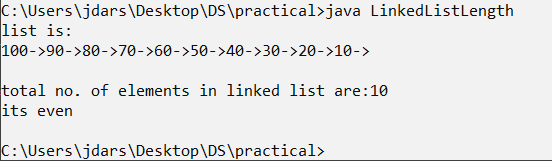
System.out.println("total no. of elements in linked list are:"+count);

list.evenOdd(count);

}

}

**Output:**

****