

## CENG 202 Data Structure

### Lab Assignment 4 (02/04/2021)

Due date: (06/04/2021 at 23.55 on AYBUZEM)

#### Stacks

You are given a file named **LinkStackApp.java**. In this file a Stack is constructed using Linked List structure. First, try to understand how this stack works.

You will use this stack file, you **can** change the parts that you seemed necessary and you can add new functions.

Write your codes only inside the main function of this **java** file and submit only this java file **without zipping** it. At the beginning of your java file, write your name, surname and student number as a command. (Do not send your files as pdf or txt files)

In this lab you will be implementing a program that checks whether a **one line command** is correct or not in case of parenthesis.

You **DON'T** need to check whether or not the command syntax is correct. You just need to check the **brackets** inside the commands.

#### Sample Run 1:

Enter a command to check:

```
System.out.println((3+5) + 2);
```

Status: ACCEPTED

#### Sample Run 2:

Enter a command to check:

```
int x = (3+5) * 2);
```

Status: Opening bracket is missing

#### Sample Run 3:

Enter a command to check:

```
calculateSum(((a+2) * 2), (3*b);
```

Status: Closing bracket is missing