



Faculty : Mr. Tarek Mizan

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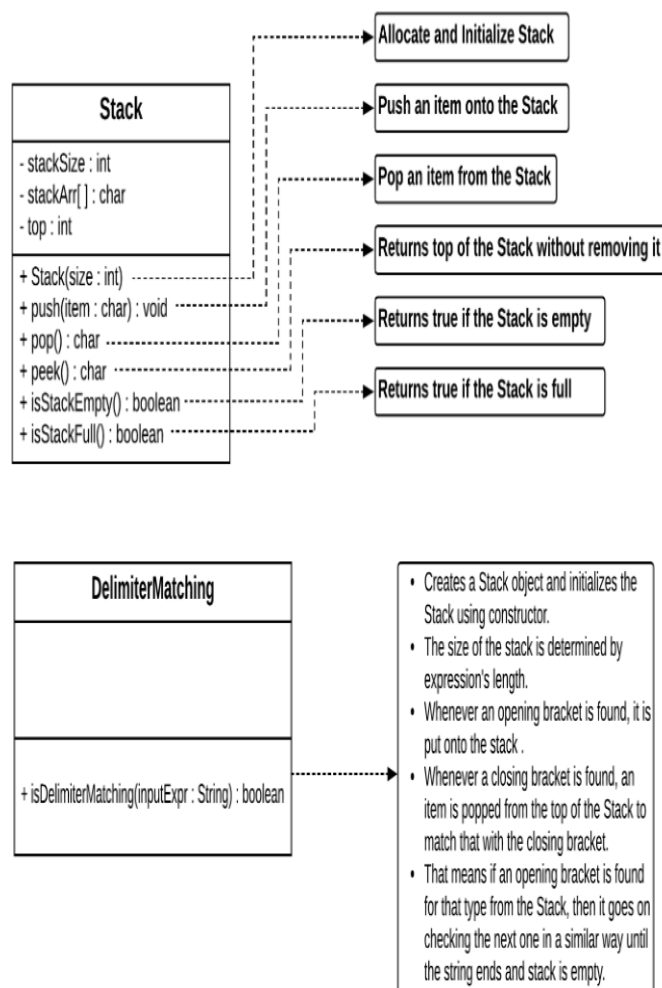
Class Timing: ST 1:00 PM – 2:30 PM (LIB-611)

Topic: Class And Object

Objective

1. To demonstrate how to define classes and objects
2. To create a Stack class and to use it for delimiter matching

Write a program that verifies the delimiters in a line of text or expression typed by the user. In this case, we will take an arithmetic expression like $a*(b+c)+[c/(a-b)]$. Your program needs to validate the expression such that opening and closing brackets are proper or not which means the brackets are balanced or not. You need to implement the following classes to verify the expressions in your program.





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Tasks:

1. Now write the main class named TestDelimiter in which you will have the main method. // Create an object of DelimiterMatching class // Initialize a String variable with your expression // Call the isDelimiterMatching() method using the object of DelimiterMatching class and see the result for that expression.

Example

```
{(a+b)*(c+d)} == true  
{(a+b)+[x*(c+d)]} == true  
{(a+b)+[x*(c+d)]} == false
```