Practical No 5 Yash Kadam 65

```python
class StackDepth :
    def depth(str : str) -> int:
        max_dep, curr_dept = 0,0;
        for char in str :
            if char == '(' :
                curr_dept += 1;
                max_dep = max(curr_dept,max_dep);
            elif char == ')' :
                curr_dept -= 1;

        return max_dep;

stack = list(input("\n Enter the elements in stack : "));
print(stack);
s1 = StackDepth;
print("The depth of the '()' is : ");
print(s1.depth(stack));
```

```
['[', "'", '(', "'", ',', ' ', "'", '1', "'", ',', ' ', "'", '+', "'",
',', ' ', "'", '(', "'", ',', ' ', "'", '2', "'", ',', ' ', "'", '*',
"'", ',', ' ', "'", '3', "'", ',', ' ', "'", ')', "'", ',', ' ', "'",
'+', "'", ',', ' ', "'", '(', "'", ',', ' ', "'", '(', "'", ',', ' ',
"'", '8', "'", ',', ' ', "'", ')', "'", ',', ' ', "'", '/', "'", ',',
' ', "'", '4', "'", ',', ' ', "'", ')', "'", ',', ' ', "'", ')', "'",
',', ' ', "'", '+', "'", ',', ' ', "'", '1', "'", ']']
The depth of the '()' is :
3
```