Exercise No: 14

Date: 22-11-2020

Aim:

To write a python class to find the validity of the parantheses.

Program:

def areBracketsBalanced(expr):

stack = []

open\_expressions = ['{','[','(']

for i in range(len(expr)):

if(expr[i] in open\_expressions):

stack.append(expr[i])

else:

if not stack:

return False

curr = stack.pop()

if(curr == '{' and expr[i]!='}'):

return False

if(curr == '[' and expr[i]!=']'):

return False

if(curr == '(' and expr[i]!=')'):

return False

if stack:

return False

else:

return True

if \_\_name\_\_ == "\_\_main\_\_":

expr = input()

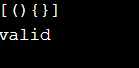
if (areBracketsBalanced(expr)):

print("valid")

else:

print("invalid")

Output:



Link:

<http://103.53.53.18/mod/vpl/forms/submissionview.php?id=327&userid=1706>

Result:

Thus the validity of the parentheses was verified.