**Exercise No**:14

**Date**:20.11.2020

**Aim:**

To write a Python class to find validity of a string of parentheses.

**Program:**

def bracket(exp):

stack=[]

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

for i in range(len(exp)):

if(exp[i] in open\_expression):

stack.append(exp[i])

else:

if not stack:

return False

curr=stack.pop()

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

return False

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

return

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

return False

if stack:

return False

else:

return True

exp=input()

if(bracket(exp)):

print("valid")

else:

print("Invalid")

**Link:**

<http://103.53.53.18/mod/vpl/forms/edit.php?id=327&userid=1776>

**Output:**

({})

Valid

{{)]

Invalid

**Result:**

The validity of the string of parantheses is found and the output is displayed.