**Exercise No:** 14

**Register No:**1518102067

**Date:**20/11/2020

**Aim:** To write the python class to find validity of a string parenthesis ,

‘(‘, ‘(‘, ‘{‘, ‘}’, ‘[‘ and ‘].

**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")

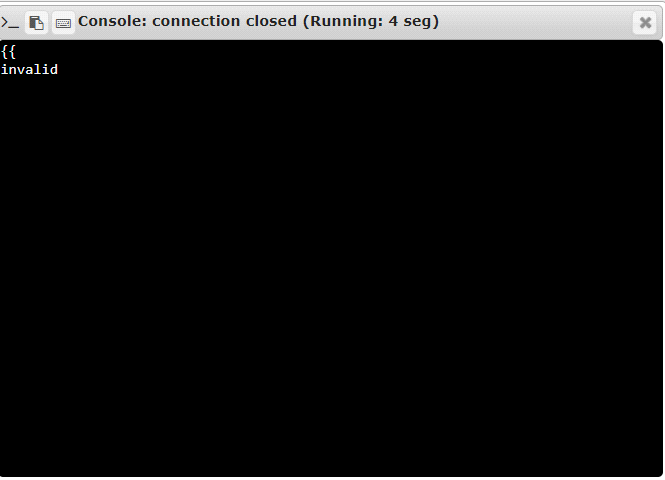
else:

print("invalid")

**Link:**

[**http://103.53.53.18/mod/vpl/forms/submissionview.php?id=327&userid=1682**](http://103.53.53.18/mod/vpl/forms/submissionview.php?id=327&userid=1682)

**Output:**

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**Result:** Thus the program is executed successfully and the output is verified.