**EXERCISE: 14**

**DATE: 20.11.2020**

**AIM:**

To write a python class to find the validity of a string of parenthesis ‘(‘,’)’,’{‘,’}’,’[‘,’]’.

**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")

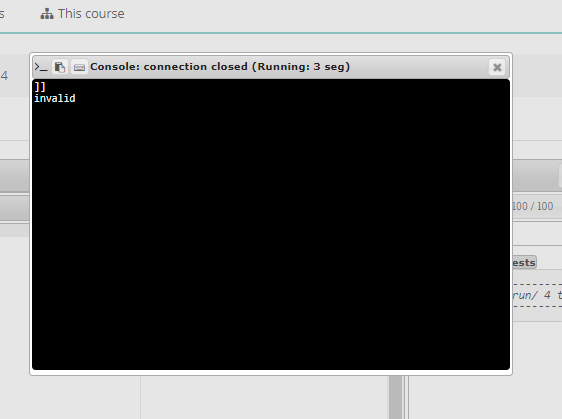
else:

print("invalid")

**LINK:**

<http://103.53.53.18/mod/vpl/forms/submissionview.php?id=327&userid=1664>

**OUTPUT:**



**RESULT:**

The validity of a string of parenthesis is obtained