Exercise:14)

Date : 23.11.20

Write a Python class to find validity of a string of parentheses, '(', ')', '{', '}', '['

and ']. These brackets must be close in the correct order,For example "()" and "()[]{}" are valid but "[)", "({[)]" and "{{{" are invalid.

AIM :

To find validity of a string of parentheses.

PROGRAM:

def valid\_paren(input\_str):

stack=[]

for paren in input\_str:

if paren == '(' or paren =='[' or paren =='{':

stack.append(paren)

else:

if not stack:

print("invalid")

return

else:

top=stack[-1]

if paren ==')' and top =='(' or \

paren ==']' and top =='[' or \

paren =='}' and top =='{':

stack.pop()

if not stack:

print("valid")

else:

print("invalid")input1=input()

valid\_paren(input1)

OUTPUT:



link: <http://103.53.53.18/mod/vpl/forms/submissionview.php?id=327&userid=1665>

RESULT:

Thus the python class to find validity of a string of

parentheses is executed.