EXERCISE NO:14

REGISTER NO:1518102103

Name:S.PREYATHARSENI

AIM: To write a python class to find validity of a string parentheses,’(‘ , ’)’ , ’{‘ , ’}’ , ’[‘, 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")

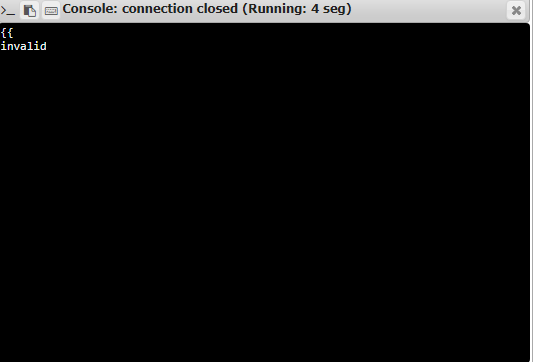
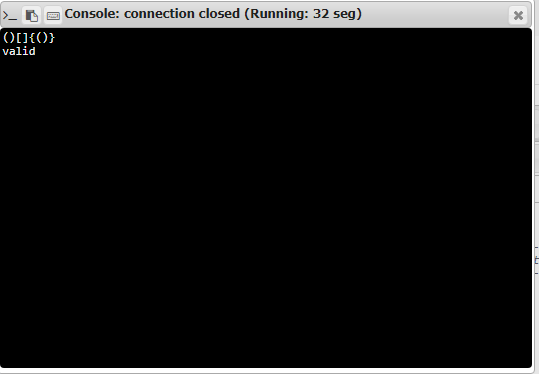
else:

print("invalid")

link:

<http://103.53.53.18/mod/vpl/forms/edit.php?id=327&userid=1707>

output:



Result: Thus, the code has been successfully executed and output is verified. ­­­­­