***EX NO: 8***

***DATE:***

**AIM**:

To write and run a Python program to find validity of a string of parentheses, '(', ')', '{', '}', '[' and ']..

**PROGRAM:**

a=input()

sq\_o,sq\_c,fl\_o,fl\_c,pr\_o,pr\_c=0,0,0,0,0,0

for i in a:

if(i=='{'):

fl\_o+=1

elif(i=='['):

sq\_o+=1

elif(i=='('):

pr\_o+=1

elif(i==')'):

pr\_c+=1

elif(i=='}'):

fl\_c+=1

elif(i==']'):

sq\_c+=1

if(sq\_o==sq\_c and pr\_o==pr\_c and fl\_o==fl\_c):

print("valid")

else:

print("invalid")

**RESULT:**

Thus, we run a Python program to find validity of a string of parentheses, '(', ')', '{', '}', '[' and '].Successfully.