from kivy.app import App

from kivy.uix.button import Button

from kivy.uix.boxlayout import BoxLayout

from kivy.uix.gridlayout import GridLayout

from kivy.uix.label import Label

class myApp(App):

def build(self):

root\_widget = BoxLayout(orientation='vertical')

output\_label = Label(size\_hint\_y = 0.75, font\_size=50)

button\_symbols = ('1', '2', '3', '+',

'4', '5', '6', '-',

'7', '8', '9', '.',

'0', '\*', '/', '=')

button\_grid = GridLayout(cols=4, size\_hint\_y=2)

for symbol in button\_symbols:

button\_grid.add\_widget(Button(text=symbol))

clear\_button = Button(text = 'Clear', size\_hint\_y=None, height=100)

def print\_button\_text(instance):

output\_label.text += instance.text

for button in button\_grid.children[1:]:

button.bind(on\_press=print\_button\_text)

def resize\_label\_text(label, new\_height):

label.fontsize = 0.5\*label.height

output\_label.bind(height=resize\_label\_text)

def evaluate\_result(instance):

try:

output\_label.text = str(eval(output\_label.text))

except SyntaxError:

output\_label.text = 'Python Syntax error!'

button\_grid.children[0].bind(on\_press=evaluate\_result)

def clear\_label(instance):

output\_label.text = " "

clear\_button.bind(on\_press=clear\_label)

root\_widget.add\_widget(output\_label)

root\_widget.add\_widget(button\_grid)

root\_widget.add\_widget(clear\_button)

return root\_widget

myApp().run(

**output** 