

```
#main.py
import kivy
kivy.require('2.0.0')
from kivy.app import App
from kivy.uix.gridlayout import GridLayout

#we wil be using Box layout and grid layout
class CalcGridLayout(GridLayout):    #CalcGridLayout inherits from GridLayout()
    def calculate(self,calculation):
        if calculation:
            try:
                self.display.text = str(eval(calculation))
                print("calculation was successfully evaluated")
            except Exception:
                self.display.text = "ERROR Eval Could Not Be Performed"
                print("Error eval of calculation could not be performed. Check your input ")

class CalculatorApp(App):
    def build(self):
        return CalcGridLayout()

calcApp = CalculatorApp()
calcApp.run()
```

Calculator.kv

```
<CustButton@Button>:  
    font_size:32
```

```
<CalcGridLayout>:  
    id:calculator  
    display:entry  
    rows:5  
    padding:10  
    spacing:10
```

```
BoxLayout:  
    TextInput:  
        id:entry  
        font_size:20  
        multiline:False
```

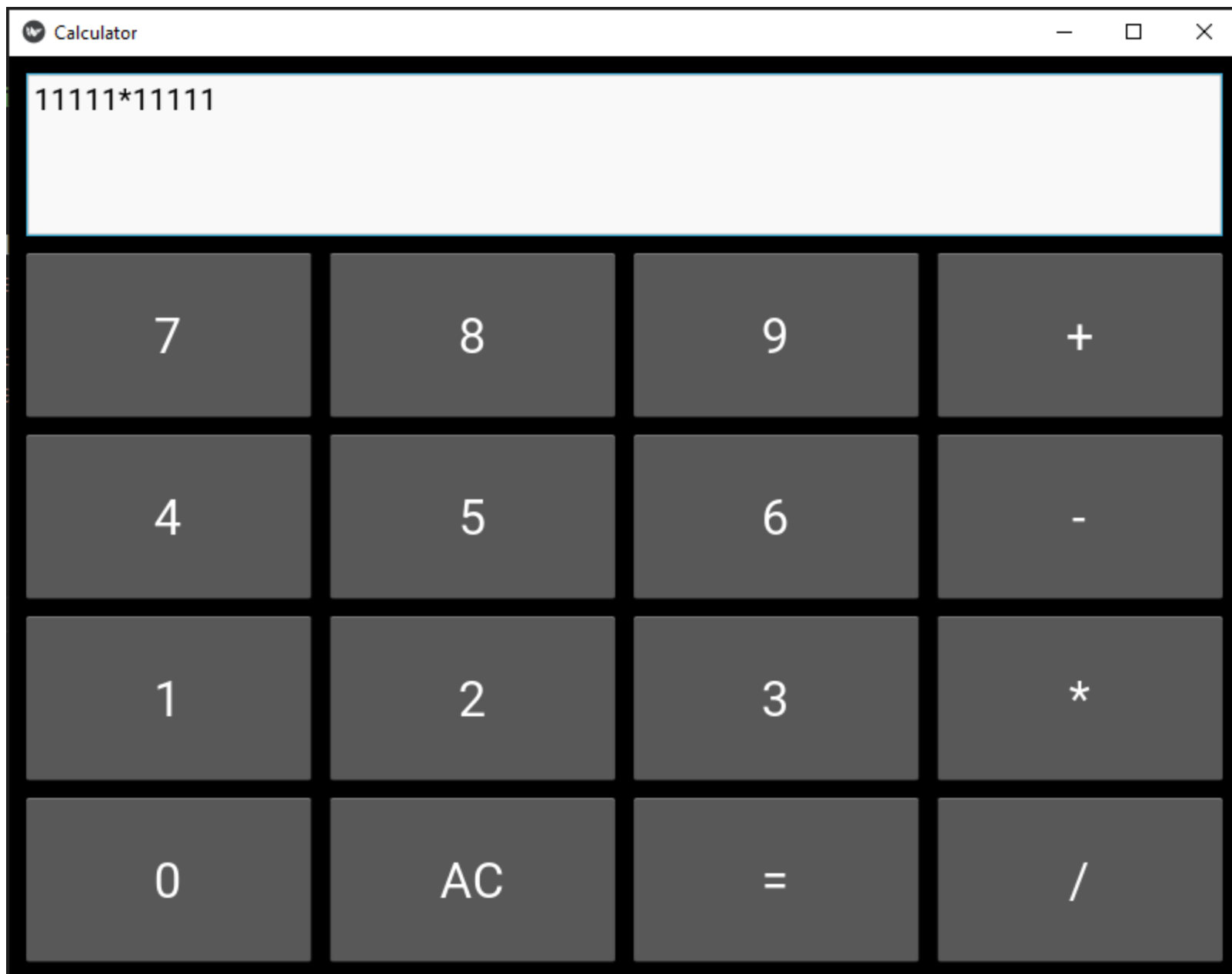
```
BoxLayout:  
    spacing:10  
    CustButton:  
        text:"7"  
        on_press:entry.text += self.text  
    CustButton:  
        text:"8"  
        on_press:entry.text += self.text  
    CustButton:  
        text:"9"  
        on_press:entry.text += self.text  
    CustButton:  
        text:"+"  
        on_press:entry.text += self.text
```

```
BoxLayout:  
    spacing:10  
    CustButton:  
        text:"4"  
        on_press:entry.text += self.text  
    CustButton:  
        text:"5"
```

```
    on_press:entry.text += self.text
CustButton:
    text:"6"
    on_press:entry.text += self.text
CustButton:
    text:"- "
    on_press:entry.text += self.text
```

```
BoxLayout:
    spacing:10
    CustButton:
        text:"1"
        on_press:entry.text += self.text
    CustButton:
        text:"2"
        on_press:entry.text += self.text
    CustButton:
        text:"3"
        on_press:entry.text += self.text
    CustButton:
        text:"*"
        on_press:entry.text += self.text
```

```
BoxLayout:
    spacing:10
    CustButton:
        text:"0"
        on_press:entry.text += self.text
    CustButton:
        text:"AC"
        on_press:entry.text = ""
    CustButton:
        text:"="
        on_press:calculator.calculate(entry.text)
    CustButton:
        text:"/"
        on_press:entry.text += self.text
```



123454321

7

8

9

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4

5

6

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1

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3

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