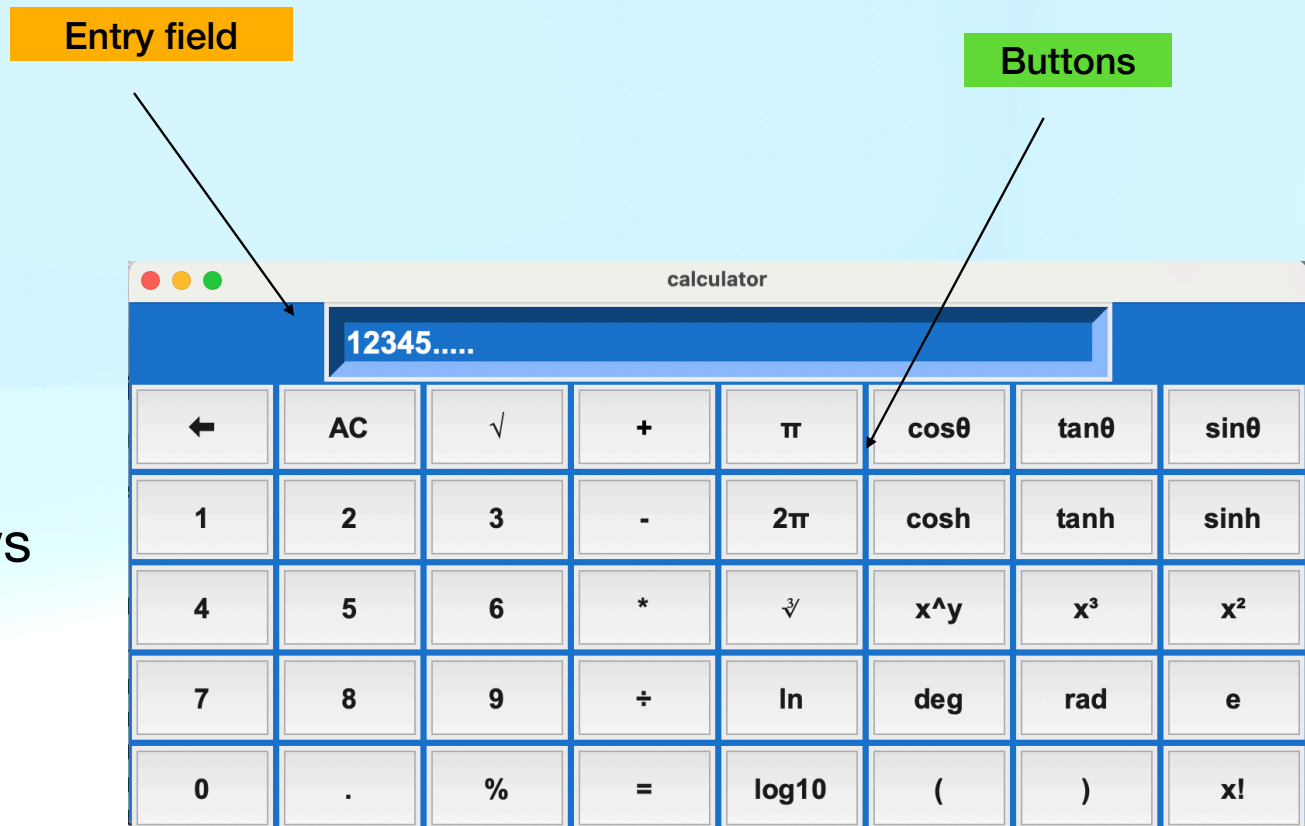


GUI CALCULATOR

Created by - Meet patel

- Gui calculator is based on python
 - There is use 1 libraries
 - 1 - tkinter
-
- There is use one main module - math module:
 - Math module is use for some mathematics functions for example root, cos,sin

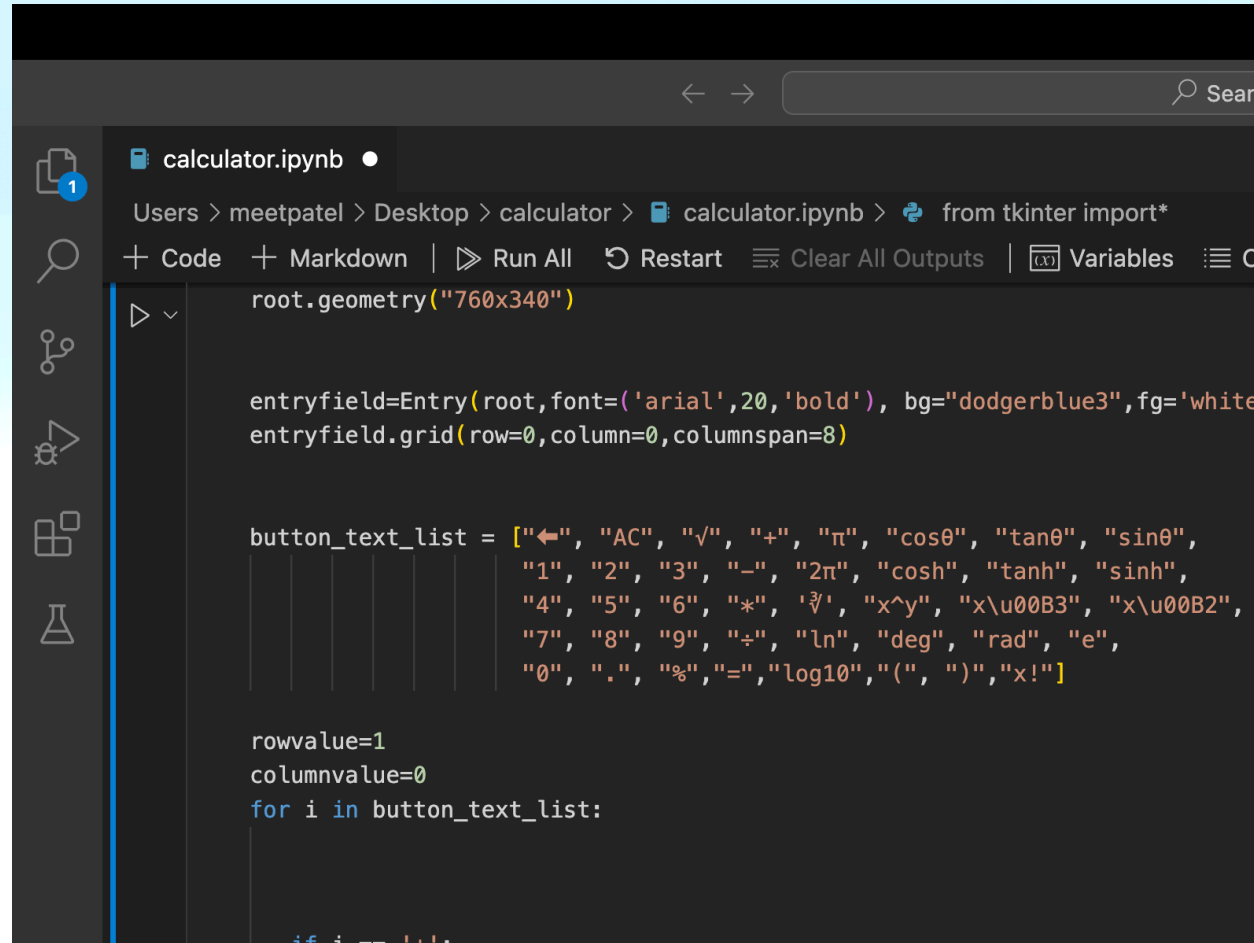
- It is my simple gui calculator
- Entry field show top of the bottoms
- There are 8 column and 5 rows
- The background colour is 'dodgerblue3'



- In this project I followed two main step
- Button layout
- Button functions

Button layout

- I used button layout in variable of “i”
- I used some font code for better look of button
- I used extra some extra button for fast work like 2pi ,cosh....
- I also mention two type clear button
- 1- All clear button which is mention “AC”
- 2- delete button which is mentioned “back button ”



```
calculator.ipynb •
Users > meetpatel > Desktop > calculator > calculator.ipynb > from tkinter import*

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▶ root.geometry("760x340")

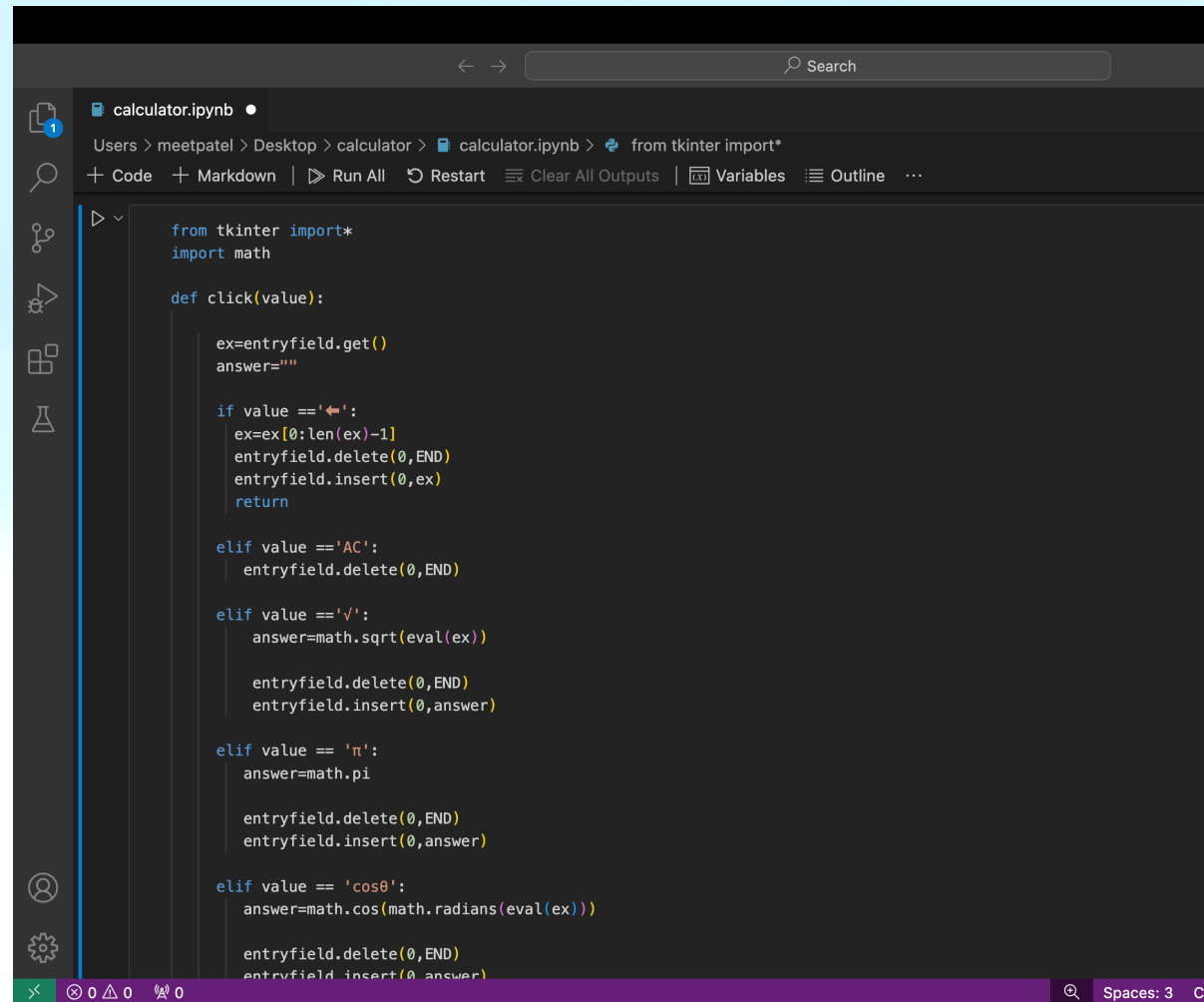
entryfield=Entry(root,font=('arial',20,'bold'), bg="dodgerblue3",fg='white')
entryfield.grid(row=0,column=0,columnspan=8)

button_text_list = ["←", "AC", "√", "+", "π", "cosθ", "tanθ", "sinθ",
                    "1", "2", "3", "-", "2π", "cosh", "tanh", "sinh",
                    "4", "5", "6", "*", "³", "x^y", "x\u00B3", "x\u00B2",
                    "7", "8", "9", "÷", "ln", "deg", "rad", "e",
                    "0", ".", "%", "=", "log10", "(", ")", "x!"]

rowvalue=1
columnvalue=0
for i in button_text_list:
    if i == '←':
```

Button function

- It is all buttons function
- How buttons work and its logic are mention
- First of all I was put click function of use “def”
- And then I use for short code I was use “elif”



```
calculator.ipynb •
Users > meetpatel > Desktop > calculator > calculator.ipynb > from tkinter import*
+ Code + Markdown | ▶ Run All ⏮ Restart ⏭ Clear All Outputs | 📄 Variables 📖 Outline ...

from tkinter import*
import math

def click(value):

    ex=entryfield.get()
    answer=""

    if value == '←':
        ex=ex[0:len(ex)-1]
        entryfield.delete(0,END)
        entryfield.insert(0,ex)
        return

    elif value == 'AC':
        entryfield.delete(0,END)

    elif value == '√':
        answer=math.sqrt(eval(ex))

        entryfield.delete(0,END)
        entryfield.insert(0,answer)

    elif value == 'π':
        answer=math.pi

        entryfield.delete(0,END)
        entryfield.insert(0,answer)

    elif value == 'cosθ':
        answer=math.cos(math.radians(eval(ex)))

        entryfield.delete(0,END)
        entryfield.insert(0,answer)
```


Helpfull tools for this project

- Vs code : there is a software which I work for this project , it is a very use full tools for coding and some module
- Tkinter : there is a library for output some code and present the code graphically

Overview:

In this project, I learned some useful function, some new idea and some logic, so I try my best to this project, and try batter

thank you