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main

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1 contributor

92 lines (67 sloc) | 1.92 KB

```python
import tkinter as tk
import tkinter.messagebox as tkm
import math

# 練習３
def enter_bg(event):
    event.widget['bg']= '#CCFFFF' #色変え


def leave_bg(event):#マウスが離れたときに元の色に戻る
    event.widget['bg']= 'SystemButtonFace'


def button_click(event):
    btn = event.widget
    num = btn["text"]

    if num == "=":
        siki=entry.get()
        res=eval(siki)
        entry.delete(0,tk.END)
        entry.insert(tk.END,res)
    elif num == "c": #全消し
        entry.delete(0,tk.END)
    elif num == "+/-":
        num *= -1

    else: # 「=」以外のボタン字
        #tkm.showinfo("", f"{num}ボタンがクリックされました")
        # 練習６
        entry.insert(tk.END, num)


# 練習１
root = tk.Tk()
root.geometry("400x500")

# 練習４
```

```python
39    entry = tk.Entry(root, justify="right", width=10, font=("",40))
40    entry.grid(row=0, column=0, columnspan=4)
41
42    # 練習 2
43    r, c = 1, 0
44    for num in range(9, 0, -1):
45        button = tk.Button(root, text=f"{num}", width=4, height=2, font=("", 30))
46        button.grid(row=r, column=c)
47        button.bind("<Enter>", enter_bg)
48        button.bind("<Leave>", leave_bg)
49
50
51        button.bind("<1>", button_click)
52        c += 1
53        if c%3 == 0:
54            r += 1
55            c = 0
56
57
58    # 練習 5
59
60    operators1 = ["+/-",0,"."]
61    for ope1 in operators1:
62        button1 = tk.Button(root, text=f"{ope1}", width=4, height=2, font=("", 30))
63        button1.grid(row=r, column=c)
64
65        button1.bind("<1>", button_click)
66        button1.bind("<Enter>", enter_bg)
67        button1.bind("<Leave>", leave_bg)
68        c += 1
69        if c%3 == 0:
70            r += 1
71            c = 0
72
73    operators2 = ["c","+","-","="]
74    c=4
75    r=1
76    for ope2 in operators2:
77        button2 = tk.Button(root, text=f"{ope2}", width=4, height=2, font=("", 30))
78        button2.grid(row=r, column=c)
79
80        button2.bind("<1>", button_click)
81        button2.bind("<Enter>", enter_bg)
82        button2.bind("<Leave>", leave_bg)
83
84
85
86        if c%4 == 0:
87            r += 1
88            c = 4
89
90
91
92    root.mainloop()
```