c0a21084be readme History

1 contributor

37 lines (24 sloc) | 899 Bytes

```
# 第2回
## 超高機能電卓（ex02/calc.py）
### 追加機能
- 四則演算

- + 押すとたし算する。
- - 押すと引き算する。
- * 押すと掛け算する。
- / 押すと割り算する。

- クリア

- del 押すと数式の1文字をdeleteする。

- オールクリア

- C 押すと数式の文字列全体をdeleteする。

### ToDo（実装しようと思ったけど時間がなかった）
- [Sqrt(x)] 平方根ボタン:

- Sqrt(x) 押すと平方根の計算を行います。

- [X^2] べき乗ボタン:

- X^2 押すとべき乗の計算を行います。

-[1/x] 逆数ボタン

- 1/x 押すとｘの逆数を表示する。

- [%] パーセントボタン

- % 押すとｘを割る100の数を表示する。
### メモ
-  if構文で使っていろいろな機能が追加します
```

- button_click()を使ってボタンクリックを作りました。

kadai

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main

c0a21084be committed 44 minutes ago 1 parent 7094e00 commit ac2beb4f53787e2cceab02f69498fe68062d874f

Showing **1 changed file** with **43 additions** and **7 deletions**.

Split Unified

50 ex02/calc.py

```
@@ -1,7 +1,7 @@
 from calendar import c
 import tkinter as tk
 import tkinter.messagebox as tkm
-
+import math
 def button_click(event):
     btn = event.widget
     txt = btn["text"]
         result = eval(keisan)
         entry.delete(0, tk.END)
         entry.insert(tk.END, result)
+
+    elif txt == "C":
+        entry.delete(0, tk.END)
+
+    elif txt == "Del":
+        n = len(entry.get())-1
+        entry.delete(n,tk.END)
+
+    elif txt == "sqrt(x)":
+        keisan = entry.get()
+        result = math.sqrt(int(keisan))
+        entry.delete(0, tk.END)
+        entry.insert(tk.END, result)
+
+    elif txt == "X^2":
+        num = entry.get()
+        result=int(num)*int(num)
+        entry.delete(0, tk.END)
+        entry.insert(tk.END, result)
+
+    elif txt == "+/-":
+         num = entry.get()
+         num1 = int(num)*-1
+         entry.delete(0, tk.END)
+         entry.insert(tk.END, num1)
```

```
                                                    elif txt == "1/x":
                                                        num = entry.get()
                                                        num1 = 1/int(num)
                                                        entry.delete(0, tk.END)
                                                        entry.insert(tk.END, num1)
                                                    elif txt == "%":
                                                        num = entry.get()
                                                        num1 = int(num)/100
                                                        entry.delete(0, tk.END)
                                                        entry.insert(tk.END, num1)
    else:                                           else:
        entry.insert(tk.END, txt)                       entry.insert(tk.END, txt)


if __name__ == "__main__":                      if __name__ == "__main__":
    root = tk.Tk()                                  root = tk.Tk()
    root.title("電卓")                              root.title("電卓")
-   root.geometry("295x570")
-   entry = tk.Entry(root, justify="right",     +   entry = tk.Entry(root, justify="right",
width = 10, font=("Times New Roman",40))        width = 18, font=("Times New Roman",40))
-   entry.grid(row = 0, column= 0,              +   entry.grid(row = 0, column= 0,
columnspan=3)                                   columnspan=4)

    r, c = 40, 0                                    r, c = 40, 0
-   for i,num in enumerate([i for i in          +   for i,num in
range(9,-1,-1)]+["+","="]):                     enumerate(["Del","%","C","Del","1/x","X^2","sq
                                                rt(x)","/",7,8,9,"*",4,5,6,"-",1,2,3,"+","+/-
                                                ",0,".","="]):
        button = tk.Button(root,                        button = tk.Button(root,
-                       width= 4,               +                   width= 5,
                        height=2,                       height=2,
                        font=("Times New Roman",        font=("Times New Roman",
30),                                            30),
                        text=f"{num}"                   text=f"{num}"
                        )                               )
        button.grid(row=r, column=c)                    button.grid(row=r, column=c)
        c += 1                                          c += 1
-       if (i+1) % 3 == 0:                      +       if (i+1) % 4 == 0:
            r += 1                                          r += 1
            c = 0                                           c = 0
        button.bind("<1>", button_click)                button.bind("<1>", button_click)

                                                        if num == "=":
                                                           button["bg"] = "PaleVioletRed1"


    root.mainloop()                                 root.mainloop()
```

0 comments on commit `ac2beb4`

syusei #10

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main

c0a21084be committed 19 minutes ago 1 parent 8f5a385 commit 65c15eea7f51de578e39ea49752e0cadbf4daa82

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Split Unified

28 ex02/calc.py

```
74          button.bind("<1>", button_click)
75
76          if num == "=":
77  -           button["bg"] = "PaleVioletRed1"
78  -
79      root.mainloop()
```

```
74          button.bind("<1>", button_click)
75
76          if num == "=":
77  +           button["bg"] = "#f582ae"
78  +       if num == "-":
79  +           button["bg"] = "#bae8e8"
80  +       if num == "*":
81  +           button["bg"] = "#bae8e8"
82  +       if num == "/":
83  +           button["bg"] = "#bae8e8"
84  +       if num == "+/-":
85  +           button["bg"] = "#e3f6f5"
86  +       if num == "%":
87  +           button["bg"] = "#e3f6f5"
88  +       if num == "+":
89  +           button["bg"] = "#bae8e8"
90  +       if num == "Del":
91  +           button["bg"] = "#e3f6f5"
92  +       if num == "X^2":
93  +           button["bg"] = "#e3f6f5"
94  +       if num == "sqrt(x)":
95  +           button["bg"] = "#e3f6f5"
96  +       if num == ".":
97  +           button["bg"] = "#ffd803"
98  +       if num == "C":
99  +           button["bg"] = "#e3f6f5"
100 +       if num == "1/x":
101 +           button["bg"] = "#e3f6f5"
102 +
103     root.mainloop()
```

0 comments on commit `65c15ee`

syusei #12

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main

c0a21084be committed 17 minutes ago 1 parent 65c15ee commit a3904c3004f69234c530c6d55bba07ea294d291d

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Split Unified

4 ex02/calc.py

```
59      entry.grid(row = 0, column= 0, columnspan=4)
60
61      r, c = 40, 0
62  -   for i,num in enumerate(["Del","%","C","Del","1/x","X^2","sqrt(x)","/",7,8,9,"*",4,5,6,"-",1,2,3,"+","+/-",0,",","="]):
63          button = tk.Button(root,
64                      width= 5,
65                      height=2,
94          if num == "sqrt(x)":
95              button["bg"] = "#e3f6f5"
96          if num == ".":
97  -           button["bg"] = "#ffd803"
98          if num == "C":
99              button["bg"] = "#e3f6f5"
100         if num == "1/x":
```

```
59      entry.grid(row = 0, column= 0, columnspan=4)
60
61      r, c = 40, 0
62  +   for i,num in enumerate(["Del","%","C","Del","1/x","X^2","sqrt(x)","/",7,8,9,"*",4,5,6,"-",1,2,3,"+","+/-",0,".","="]):
63          button = tk.Button(root,
64                      width= 5,
65                      height=2,
94          if num == "sqrt(x)":
95              button["bg"] = "#e3f6f5"
96          if num == ".":
97  +           button["bg"] = "#e3f6f5"
98          if num == "C":
99              button["bg"] = "#e3f6f5"
100         if num == "1/x":
```

0 comments on commit `a3904c3`

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  #13 opened 11 minutes ago by paomiansm
- **小数点が足りない**
  #12 opened 21 minutes ago by C0B21190
- **いい電卓ですね(^^)**
  #11 opened 36 minutes ago by C0A21078
- **ボタン色**
  #10 opened 37 minutes ago by paomiansm
- **Nが多い?**
  #9 opened 7 days ago by c0a21096
- **判定条件が間違いました**
  #8 opened 7 days ago by C0B21190
- **戻り値抜き**
  #7 opened 7 days ago by paomiansm
- **符号抜き**
  #6 opened 7 days ago by paomiansm
- **表示文字について**
  #5 opened 7 days ago by C0A21078
- **test issue**
  #4 opened 7 days ago by c0a21096

テスト

#3 opened 7 days ago by C0A21078

quiz01.py

#2 opened 7 days ago by C0A21078

hello 1

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