Interface Homme Machine Python-Tkinter Travaux Pratiques N° 6Bis

Objetcif:

Appliquer les concepts étudiés au TP6 pour concevoir une application qui réalise une calculette.

Interface de l'application X Calculatrice l٨ С CE Close % 7 8 9 5 4 6 Х 2 3 1 0 + Code pour générer l'interface et pour gérer les événements from tkinter import Tk, W, E, StringVar from tkinter.ttk import Frame, Button, Entry, Style root = Tk()root.title("Calculatrice") frame = Frame(root) Style().configure("TButton", padding=(0, 5, 0, 5), font='serif 10') frame.columnconfigure(0, pad=3) frame.columnconfigure(1, pad=3) frame.columnconfigure(2, pad=3) frame.columnconfigure(3, pad=3) frame.rowconfigure(0, pad=3) frame.rowconfigure(1, pad=3) frame.rowconfigure(2, pad=3) frame.rowconfigure(3, pad=3) frame.rowconfigure(4, pad=3) entryvar = StringVar(frame) entryvar.set("") entry = Entry(frame, textvariable = entryvar)

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entry.grid(row=0, column=0, columnspan=4, sticky=W+E)
cls = Button(frame, text="C", command=lambda:entryvar.set(""))
cls.grid(row=1, column=0)
back = Button(frame, text="CE")
back.grid(row=1, column=1)
close = Button(frame, text="Close", command=lambda:quit())
close.grid(row=1, column=2)
quotient = Button(frame, text="%")
quotient.grid(row=1, column=3)
seven = Button(frame, text="7",
command=lambda:entryvar.set(entryvar.get()+"7"))
seven.grid(row=2, column=0)
eight = Button(frame, text="8",
command=lambda:entryvar.set(entryvar.get()+"8"))
eight.grid(row=2, column=1)
nine = Button(frame, text="9",
command=lambda:entryvar.set(entryvar.get()+"9"))
nine.grid(row=2, column=2)
div = Button(frame, text="/")
div.grid(row=2, column=3)
four = Button(frame, text="4")
four.grid(row=3, column=0)
five = Button(frame, text="5")
five.grid(row=3, column=1)
six = Button(frame, text="6",
command=lambda:entryvar.set(entryvar.get()+"6"))
six.grid(row=3, column=2)
mul = Button(frame, text="x",
command=lambda:entryvar.set(entryvar.get()+"*") )
mul.grid(row=3, column=3)
one = Button(frame, text="1")
one.grid(row=4, column=0)
two = Button(frame, text="2")
two.grid(row=4, column=1)
thre = Button(frame, text="3")
thre.grid(row=4, column=2)
minus = Button(frame, text="-")
minus.grid(row=4, column=3)
zero = Button(frame, text="0",
command=lambda:entryvar.set(entryvar.get()+"0"))
zero.grid(row=5, column=0)
dot = Button(frame, text=".",
command=lambda:entryvar.set(entryvar.get()+"."))
dot.grid(row=5, column=1)
equal = Button(frame, text="=",
command=lambda:entryvar.set(eval(entryvar.get())))
equal.grid(row=5, column=2)
plus = Button(frame, text="+")
plus.grid(row=5, column=3)
frame.pack()
one.bind("<Button-1>", lambda event : ajouter(event,"1"))
two.bind("<Button-1>", lambda event : ajouter(event,"2"))
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thre.bind("<Button-1>", lambda event : ajouter(event,"3"))
four.bind("<Button-1>", lambda event : ajouter(event,"4"))
five.bind("<Button-1>", lambda event : ajouter(event,"5"))
#******Gestionnaires des événements*****
def ajouter(event, x):
   entryvar.set(entryvar.get() + x)
def ajouterbis(event):
   w = event.widget
   s = entryvar.get()
   s = s + w["text"] #ou s+w.cget("text")
   entryvar.set(s)
def gereBack(event):
   s = entryvar.get()
   entryvar.set(s[0:len(s)-1])
back.bind("<Button-1>", gereBack)
plus.bind("<Button-1>", ajouterbis)
minus.bind("<Button-1>", ajouterbis)
div.bind("<Button-1>", ajouterbis)
quotient.bind("<Button-1>", ajouterbis)
root.mainloop()
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