**Write a program which will make a scientific calculator.**

**Input:**

**from** tkinter **import** \*  
**import** math  
  
root = Tk()  
root.title(**'MY SCIENTIFIC CALCULATOR'**)  
root.geometry(**'400x350'**)  
root.resizable(0, 0)  
text\_input = StringVar()  
operator = **""**e = Entry(root, width=30, borderwidth=15, textvariable=text\_input)  
e.pack()  
e.insert(-1, 0)  
  
  
**def** button\_click(number):  
 **global** operator  
 e.delete(0, END)  
 operator = operator + str(number)  
 text\_input.set(operator)  
  
  
**def** equals():  
 **global** operator  
 sumup = str(eval(operator))  
 text\_input.set(sumup)  
 operator = **''  
  
  
def** fact():  
 fir = e.get()  
 **global** f\_num  
 f\_num = int(fir)  
 e.delete(0, END)  
  
  
  
**def** button\_clear():  
 **global** operator  
 operator = **""** text\_input.set(operator)  
  
  
**def** Del():  
 **global** operator  
 operator = text\_input.get()  
 operator = operator[:len(text\_input.get()) - 1]  
 text\_input.set(operator)  
  
  
btn7 = Button(root, text=**'7'**, command=**lambda**: button\_click(7), bd=9).place(x=0, y=50, width=90, height=50)  
btn8 = Button(root, text=**'8'**, command=**lambda**: button\_click(8), bd=9).place(x=90, y=50, width=90, height=50)  
btn9 = Button(root, text=**'9'**, command=**lambda**: button\_click(9), bd=9).place(x=180, y=50, width=90, height=50)  
btn4 = Button(root, text=**'4'**, command=**lambda**: button\_click(4), bd=9).place(x=0, y=100, width=90, height=50)  
btn5 = Button(root, text=**'5'**, command=**lambda**: button\_click(5), bd=9).place(x=90, y=100, width=90, height=50)  
btn6 = Button(root, text=**'6'**, command=**lambda**: button\_click(6), bd=9).place(x=180, y=100, width=90, height=50)  
btn1 = Button(root, text=**'1'**, command=**lambda**: button\_click(1), bd=9).place(x=0, y=150, width=90, height=50)  
btn2 = Button(root, text=**'2'**, command=**lambda**: button\_click(2), bd=9).place(x=90, y=150, width=90, height=50)  
btn3 = Button(root, text=**'3'**, command=**lambda**: button\_click(3), bd=9).place(x=180, y=150, width=90, height=50)  
btn0 = Button(root, text=**'0'**, command=**lambda**: button\_click(0), bd=9).place(x=0, y=200, width=230, height=50)  
dot = Button(root, text=**'.'**, command=**lambda**: button\_click(**'.'**), bd=9).place(x=230, y=200, width=40, height=50)  
equal = Button(root, text=**'='**, command=**lambda**: equals(), bd=9).place(x=0, y=250, width=200, height=50)  
plus = Button(root, text=**'+'**, command=**lambda**: button\_click(**'+'**), bd=5).place(x=270, y=50, width=70, height=40)  
minus = Button(root, text=**'-'**, command=**lambda**: button\_click(**'-'**), bd=5).place(x=330, y=50, width=70, height=40)  
multiply = Button(root, text=**'x'**, command=**lambda**: button\_click(**'\*'**), bd=5).place(x=270, y=90, width=70, height=40)  
divide = Button(root, text=**'÷'**, command=**lambda**: button\_click(**'/'**), bd=5).place(x=330, y=90, width=70, height=40)  
brk = Button(root, text=**'('**, command=**lambda**: button\_click(**'('**), bd=5).place(x=270, y=130, width=70, height=40)  
brk2 = Button(root, text=**')'**, command=**lambda**: button\_click(**')'**), bd=5).place(x=330, y=130, width=70, height=40)  
sine = Button(root, text=**'sin'**, command=**lambda**: button\_click(**'sin('**), bd=5).place(x=270, y=170, width=70, height=40)  
cosine = Button(root, text=**'cos'**, command=**lambda**: button\_click(**'cos('**), bd=5).place(x=330, y=170, width=70, height=40)  
tangent = Button(root, text=**'tan'**, command=**lambda**: button\_click(**'tan('**), bd=5).place(x=270, y=210, width=65, height=40)  
square = Button(root, text=**'²'**, command=**lambda**: button\_click(**')\*\*2'**), bd=5).place(x=330, y=210, width=70, height=40)  
squareROOT = Button(root, text=**'√'**, command=**lambda**: button\_click(**')\*\*0.5'**), bd=5,).place(x=270, y=250, width=67,  
 height=50)  
factor = Button(root, text=**'!'**, command=**lambda**: button\_click(**'math.factorial('**), bd=5).place(x=330, y=250, width=70,  
 height=50)  
aC = Button(root, text=**'AC'**, command=**lambda**: button\_clear(), bd=5).place(x=0, y=300, width=140, height=50)  
c = Button(root, text=**'C'**, command=**lambda**: Del(), bd=5).place(x=140, y=300, width=67, height=50)  
log = Button(root, text=**'log'**, command=**lambda**: button\_click(**'math.log10('**), bd=3).place(x=207, y=300, width=67,  
 height=50)  
ln = Button(root, text=**'ln'**, command=**lambda**: button\_click(**'math.log('**), bd=5).place(x=274, y=300, width=67, height=50)  
per = Button(root, text=**'%'**, command=**lambda**: button\_click(**'\*.001'**), bd=5).place(x=341, y=300, width=59, height=50)  
  
root.mainloop()

**Output:**

