***Artificial Intelligence***

***CSL 411***

***Lab Journal***

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***Lab 3: GUI using tinker***

***Task1: make simple calculator***

***Solution:***

from tkinter import \*

root = Tk()

Dequa=""

equation=StringVar()

equation.set("Equation:")

class Calculator(): # class for implementing calculator function

def \_\_init\_\_(self):

return

def btnPress(self,num):

global Dequa

Dequa += str(num)

equation.set(Dequa)

pass

def EqualPress(self):

global Dequa

Dequa=""

total=eval(Dequa)

Dequa=total

equation.set(Dequa)

# implement yourself

pass

def ClearPress(self):

global Dequa

Dequa=""

equation.set(Dequa)

#implement yourself

pass

cal=Calculator()

### Calculation Label

l=Label(root, textvariable=equation)

l.grid(row=0,column=2)

Button(root, text="1", command=lambda: cal.btnPress(1)).grid(row=1, column=1)

Button(root,text="2", command=lambda: cal.btnPress(2)).grid(row=1, column=2)

Button(root,text="3", command=lambda: cal.btnPress(3)).grid(row=1, column=3)

Button(root,text="4", command=lambda: cal.btnPress(4)).grid(row=2, column=1)

Button(root,text="5", command=lambda: cal.btnPress(5)).grid(row=2, column=2)

Button(root,text="6", command=lambda: cal.btnPress(6)).grid(row=2, column=3)

Button(root,text="7", command=lambda: cal.btnPress(7)).grid(row=3, column=1)

Button(root,text="8", command=lambda: cal.btnPress(8)).grid(row=3, column=2)

Button(root,text="9", command=lambda: cal.btnPress(9)).grid(row=3, column=3)

Button(root,text="+", command=lambda: cal.btnPress("+")).grid(row=1, column=4)

Button(root,text="-", command=lambda: cal.btnPress("-")).grid(row=2, column=4)

Button(root,text="/", command=lambda: cal.btnPress("/")).grid(row=3, column=4)

Button(root,text="c", command=lambda: cal.ClearPress()).grid(row=4, column=1)

Button(root,text=".", command=lambda: cal.btnPress(".")).grid(row=4, column=2)

Button(root,text="=", command=lambda: cal.EqualPress()).grid(row=4, column=3)

Button(root,text="\*", command=lambda: cal.btnPress("\*")).grid(row=4, column=4)

root.mainloop()

Output

