

Python tamil keyboard program

program:

```
"""
```

It's a tamil keyboard. Reference for look like a android keyboard.

```
"""
```

```
from tkinter import *
```

```
root_window=Tk()
```

```
root_window.geometry('1500x700')
```

```
#Display the text
```

```
typing_frame = Frame(root_window,width=1000,height=100,
```

```
highlightbackground='red', highlightthickness=2)
```

```
typing_frame.pack()
```

```
tamil_display = Text(typing_frame, width=75, height=10,
```

```
font=('calibre',20,'bold'))
```

```
tamil_display.pack()
```

```
#TAMIL CHARACTER PRINT FUNCTION.
```

```
def tamil_print(ch):
```

```
    chh = chr(ch)
```

```
    tamil_display.insert(END,chh)
```

```
def clear_all():
```

```
    tamil_display.delete("1.0",END)
```

```
def text_copy():
```

```
    wordes = str(tamil_display.get('1.0',END))
```

```
    print("_____TAMIL LETTERS BOARD_____")
```

```
    print( wordes)
```

#Button frame

```
button_frame = Frame(root_window, width=200, highlightbackground='red',  
highlightthickness=2)
```

```
button_frame.pack()
```

```
clear_button = Button(button_frame, text="CLEAR", command=clear_all)
```

```
clear_button.pack(side=LEFT)
```

```
copy_button = Button(button_frame, text="COPY TO  
TERMINAL",command=text_copy)
```

```
copy_button.pack(side=LEFT)
```

#Keyboard Frame 1

```
k_f_1 = Frame(root_window, highlightbackground='red',  
highlightthickness=2,padx=10,pady=10)
```

```
k_f_1.pack(pady=20)
```

#aa_na, va_na tamil key's created.

```
t_b_1 =
```

```
Button(k_f_1,text=chr(2949),command=lambda:tamil_print(2949),width=2,hei  
ght=2,font=('bold'))
```

```
t_b_1.pack(side=LEFT)
```

```
t_b_2 =
```

```
Button(k_f_1,text=chr(2950),command=lambda:tamil_print(2950),width=2,hei  
ght=2,font=('bold'))
```

```
t_b_2.pack(side=LEFT)
```

```
t_b_3 =
```

```
Button(k_f_1,text=chr(2951),command=lambda:tamil_print(2951),width=2,hei  
ght=2,font=('bold'))
```

```
t_b_3.pack(side=LEFT)
```

```
t_b_4 =
```

```
Button(k_f_1,text=chr(2952),command=lambda:tamil_print(2952),width=2,height=2,font=('bold'))
```

```
t_b_4.pack(side=LEFT)
```

```
t_b_5 =
```

```
Button(k_f_1,text=chr(2953),command=lambda:tamil_print(2953),width=2,height=2,font=('bold'))
```

```
t_b_5.pack(side=LEFT)
```

```
t_b_6 =
```

```
Button(k_f_1,text=chr(2954),command=lambda:tamil_print(2954),width=2,height=2,font=('bold'))
```

```
t_b_6.pack(side=LEFT)
```

```
t_b_7=
```

```
Button(k_f_1,text=chr(2958),command=lambda:tamil_print(2958),width=2,height=2,font=('bold'))
```

```
t_b_7.pack(side=LEFT)
```

```
t_b_8 =
```

```
Button(k_f_1,text=chr(2959),command=lambda:tamil_print(2959),width=2,height=2,font=('bold'))
```

```
t_b_8.pack(side=LEFT)
```

```
t_b_9 =
```

```
Button(k_f_1,text=chr(2960),command=lambda:tamil_print(2960),width=2,height=2,font=('bold'))
```

```
t_b_9.pack(side=LEFT)
```

```
t_b_10 =  
Button(k_f_1,text=chr(2962),command=lambda:tamil_print(2962),width=2,height=2,font=('bold'))  
t_b_10.pack(side=LEFT)
```

```
t_b_11 =  
Button(k_f_1,text=chr(2963),command=lambda:tamil_print(2963),width=2,height=2,font=('bold'))  
t_b_11.pack(side=LEFT)
```

```
t_b_12 =  
Button(k_f_1,text=chr(2964),command=lambda:tamil_print(2964),width=2,height=2,font=('bold'))  
t_b_12.pack(side=LEFT)
```

```
t_b_13 =  
Button(k_f_1,text=chr(2947),command=lambda:tamil_print(2947),width=2,height=2,font=('bold'))  
t_b_13.pack(side=LEFT)  
#aa_na. va_na end
```

```
#root window is changed k_f_1 frame  
k_f_3 = Frame(root_window, highlightbackground='red', highlightthickness=2, padx=10,pady=10)  
k_f_3.pack(pady=10)
```

```
#charactor is upload to the text view  
def charactor_upload(chrr,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel):  
    tamil_display.insert(END,chrr)
```

```
zero.pack_forget();one.pack_forget();two.pack_forget();three.pack_forget();fo
```

```
ur.pack_forget();five.pack_forget();six.pack_forget();seven.pack_forget();eight
.pack_forget();nine.pack_forget();ten.pack_forget();leven.pack_forget();twel.p
ack_forget()
```

#character change loop function

```
def character_change_loop(chrr):
```

```
    character_0 = chrr
```

```
    character_1 = chrr;character_2 = chrr;character_3 = chrr;character_4 =
chrr;character_5 = chrr;character_6 = chrr;character_7 = chrr;character_8 =
chrr;character_9 = chrr;character_10 = chrr;character_11 =
chrr;character_12 = chrr
```

#ik_ka_na created

```
#this chrr_one,chrr_zero.....chrr_twel send to the text area.
```

```
chrr_zero = chr(character_0)
```

```
zero = Button(k_f_3,text=chrr_zero,command =
lambda:character_upload(chrr_zero,zero,one,two,three,four,five,six,seven,eig
ht,nine,ten,leven,twel),width=5,height=2,font=('bold'))
```

```
zero.pack(side=LEFT)
```

```
chrr_one = chr(character_1)+chr(3021)
```

```
one = Button(k_f_3,text = chrr_one,command =
lambda:character_upload(chrr_one,zero,
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f
ont=('bold'))
```

```
one.pack(side=LEFT)
```

```
chrr_two = chr(character_2)+chr(3006)
```

```
two = Button(k_f_3,text = chrr_two,command =
lambda:character_upload(chrr_two,zero,
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f
ont=('bold'))
```

```
two.pack(side=LEFT)
```

```
chrr_three = chr(charactor_3)+chr(3007)
```

```
three = Button(k_f_3,text = chrr_three,command =
```

```
lambda:charactor_upload(chrr_three,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
three.pack(side=LEFT)
```

```
chrr_four = chr(charactor_4)+chr(3008)
```

```
four = Button(k_f_3,text = chrr_four,command =
```

```
lambda:charactor_upload(chrr_four,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
four.pack(side=LEFT)
```

```
chrr_five = chr(charactor_5)+chr(3009)
```

```
five = Button(k_f_3,text = chrr_five,command =
```

```
lambda:charactor_upload(chrr_five,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
five.pack(side=LEFT)
```

```
chrr_six = chr(charactor_6)+chr(3010)
```

```
six = Button(k_f_3,text = chrr_six,command =
```

```
lambda:charactor_upload(chrr_six,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
six.pack(side=LEFT)
```

```
chrr_seven = chr(3014)+chr(charactor_7)
```

```
seven = Button(k_f_3,text = chrr_seven,command =  
lambda:charactor_upload(chrr_seven,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
seven.pack(side=LEFT)
```

```
chrr_eight = chr(3015)+chr(charactor_8)
```

```
eight = Button(k_f_3,text = chrr_eight,command =  
lambda:charactor_upload(chrr_eight,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
eight.pack(side=LEFT)
```

```
chrr_nine = chr(3016)+chr(charactor_9)
```

```
nine = Button(k_f_3,text = chrr_nine,command =  
lambda:charactor_upload(chrr_nine,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
nine.pack(side=LEFT)
```

```
chrr_ten = chr(charactor_10)+chr(3018)
```

```
ten = Button(k_f_3,text = chrr_ten,command =  
lambda:charactor_upload(chrr_ten,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
ten.pack(side=LEFT)
```

```
chrr_leven = chr(charactor_11)+chr(3019)
```

```
leven = Button(k_f_3,text = chrr_leven,command =  
lambda:charactor_upload(chrr_leven,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
leven.pack(side=LEFT)
```

```
chrr_twel = chr(charactor_12)+chr(3020)
```

```
twel = Button(k_f_3,text=chrr_twel,command =
```

```
lambda:charactor_upload(chrr_twel,zero,  
one,two,three,four,five,six,seven,eight,nine,ten,leven,twel),width=5,height=2,f  
ont=('bold'))
```

```
twel.pack(side=LEFT)
```

```
#keyboard frame 2
```

```
k_f_2 = Frame(root_window, highlightbackground='red',  
highlightthickness=2,pady=10,padx=10)
```

```
k_f_2.pack()
```

```
#ka na start the hear
```

```
t_1 = 2965
```

```
t_m_1 = Button(k_f_2,text=chr(2965)+" : line",command=  
lambda:charactor_change_loop(t_1),width=5,height=2,font=('bold'))
```

```
t_m_1.pack(side=LEFT)
```

```
t_2 = 2969
```

```
t_m_2 = Button(k_f_2,text=chr(2969)+" : line",command=  
lambda:charactor_change_loop(t_2),width=5,height=2,font=('bold'))
```

```
t_m_2.pack(side=LEFT)
```

```
t_3 = 2970
```

```
t_m_3 = Button(k_f_2,text=chr(2970)+" : line",command=  
lambda:charactor_change_loop(t_3),width=5,height=2,font=('bold'))
```

```
t_m_3.pack(side=LEFT)
```


t_4 = 2974

t_m_4 = Button(k_f_2,text=chr(2974)+" : line",command=
lambda:charactor_change_loop(t_4),width=5,height=2,font=('bold'))
t_m_4.pack(side=LEFT)

t_5 = 2975

t_m_5 = Button(k_f_2,text=chr(2975)+" : line",command=
lambda:charactor_change_loop(t_5),width=5,height=2,font=('bold'))
t_m_5.pack(side=LEFT)

t_6 = 2979

t_m_6 = Button(k_f_2,text=chr(2979)+" : line",command=
lambda:charactor_change_loop(t_6),width=5,height=2,font=('bold'))
t_m_6.pack(side=LEFT)

t_7 = 2980

t_m_7 = Button(k_f_2,text=chr(2980)+" : line",command=
lambda:charactor_change_loop(t_7),width=5,height=2,font=('bold'))
t_m_7.pack(side=LEFT)

t_8 = 2984

t_m_8 = Button(k_f_2,text=chr(2984)+" : line",command=
lambda:charactor_change_loop(t_8),width=5,height=2,font=('bold'))
t_m_8.pack(side=LEFT)

t_9 = 2985

t_m_9 = Button(k_f_2,text=chr(2985)+" : line",command=
lambda:charactor_change_loop(t_9),width=5,height=2,font=('bold'))
t_m_9.pack(side=LEFT)

t_10 = 2986

```
t_m_10 = Button(k_f_2,text=chr(2986)+" : line",command=
lambda:charactor_change_loop(t_10),width=5,height=2,font=('bold'))
t_m_10.pack(side=LEFT)
```

```
t_11 = 2990
t_m_11 = Button(k_f_2,text=chr(2990)+" : line",command=
lambda:charactor_change_loop(t_11),width=5,height=2,font=('bold'))
t_m_11.pack(side=LEFT)
```

```
t_12 = 2991
t_m_12 = Button(k_f_2,text=chr(2991)+" : line",command=
lambda:charactor_change_loop(t_12),width=5,height=2,font=('bold'))
t_m_12.pack(side=LEFT)
```

```
t_13 = 2992
t_m_13 = Button(k_f_2,text=chr(2992)+" : line",command=
lambda:charactor_change_loop(t_13),width=5,height=2,font=('bold'))
t_m_13.pack(side=LEFT)
```

```
t_14 = 2993
t_m_14 = Button(k_f_2,text=chr(2993)+" : line",command=
lambda:charactor_change_loop(t_14),width=5,height=2,font=('bold'))
t_m_14.pack(side=LEFT)
```

```
t_15 = 2994
t_m_15 = Button(k_f_2,text=chr(2994)+" : line",command=
lambda:charactor_change_loop(t_15),width=5,height=2,font=('bold'))
t_m_15.pack(side=LEFT)
```

```
t_16 = 2995
t_m_16 = Button(k_f_2,text=chr(2995)+" : line",command=
lambda:charactor_change_loop(t_16),width=5,height=2,font=('bold'))
```

```
t_m_16.pack(side=LEFT)
```

```
t_17 = 2996
```

```
t_m_17 = Button(k_f_2,text=chr(2996)+" : line",command=  
lambda:charactor_change_loop(t_17),width=5,height=2,font=('bold'))
```

```
t_m_17.pack(side=LEFT)
```

```
t_18 = 2997
```

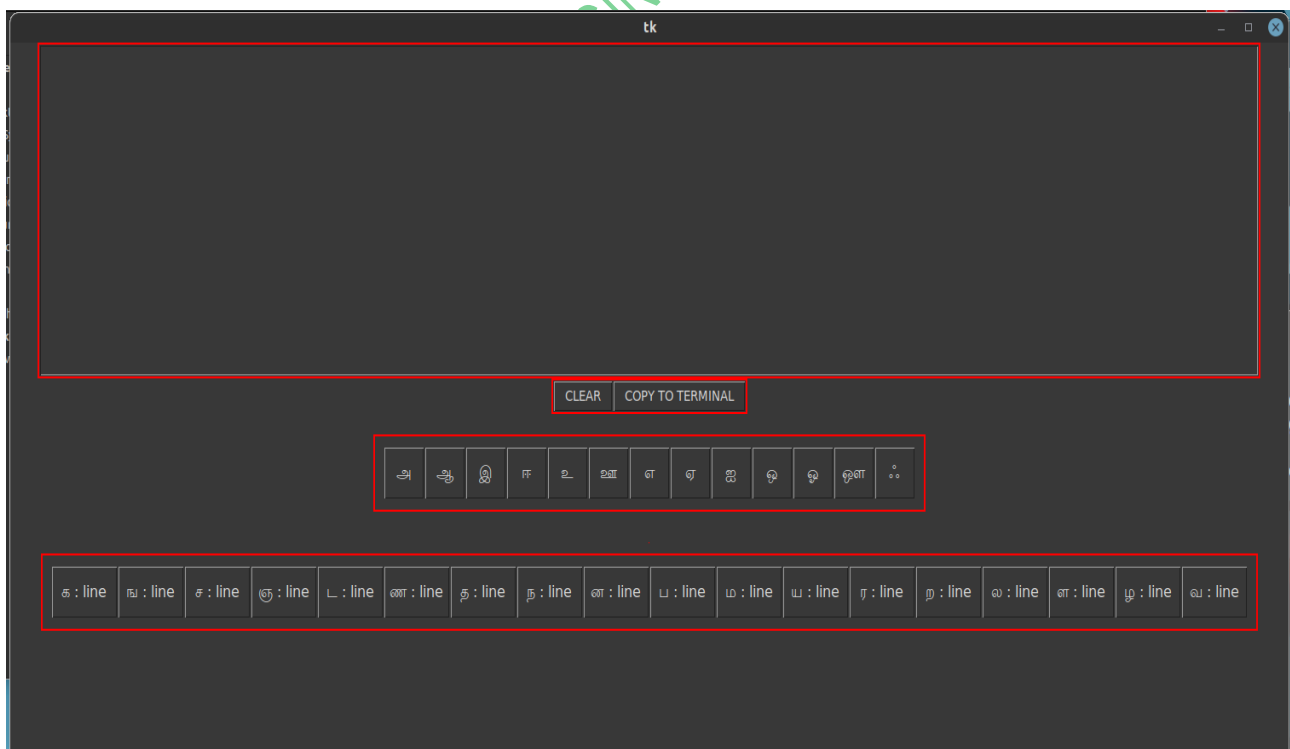
```
t_m_18 = Button(k_f_2,text=chr(2997)+" : line",command=  
lambda:charactor_change_loop(t_18),width=5,height=2,font=('bold'))
```

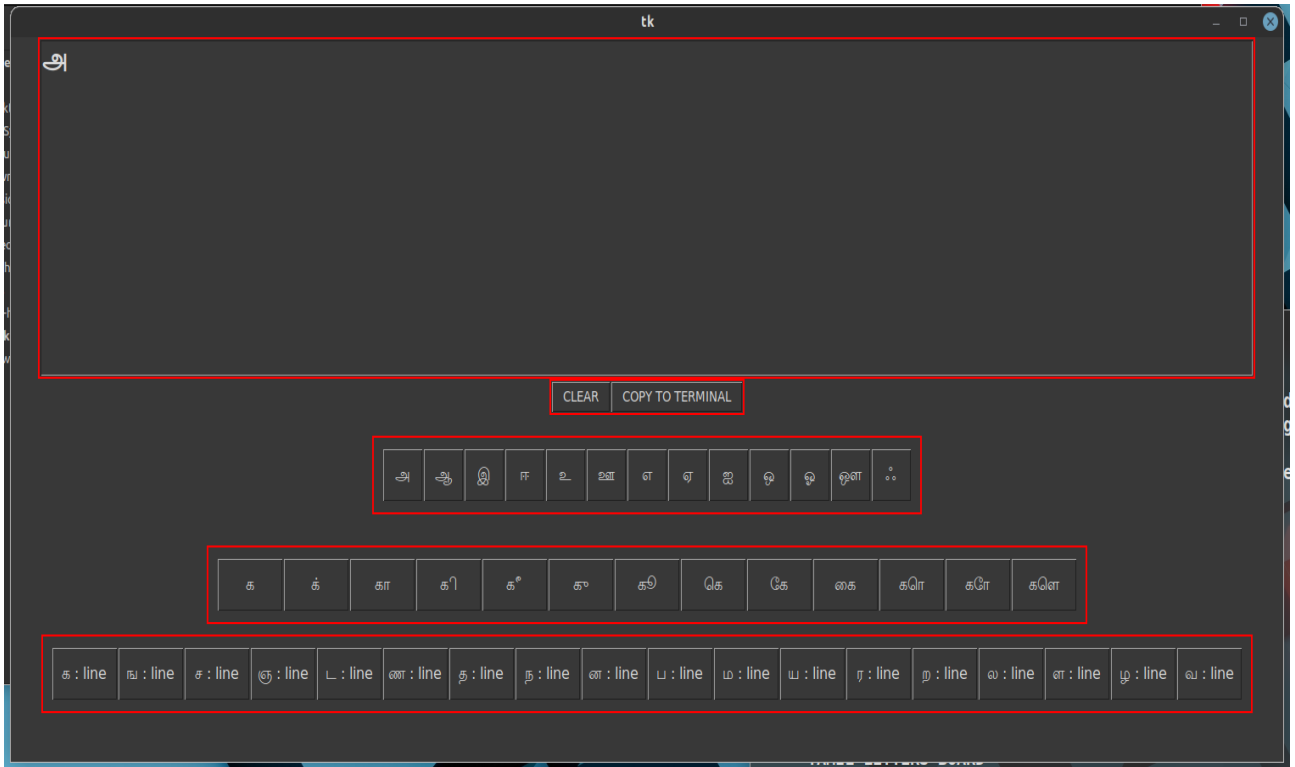
```
t_m_18.pack(side=LEFT)
```

```
root_window.mainloop()
```

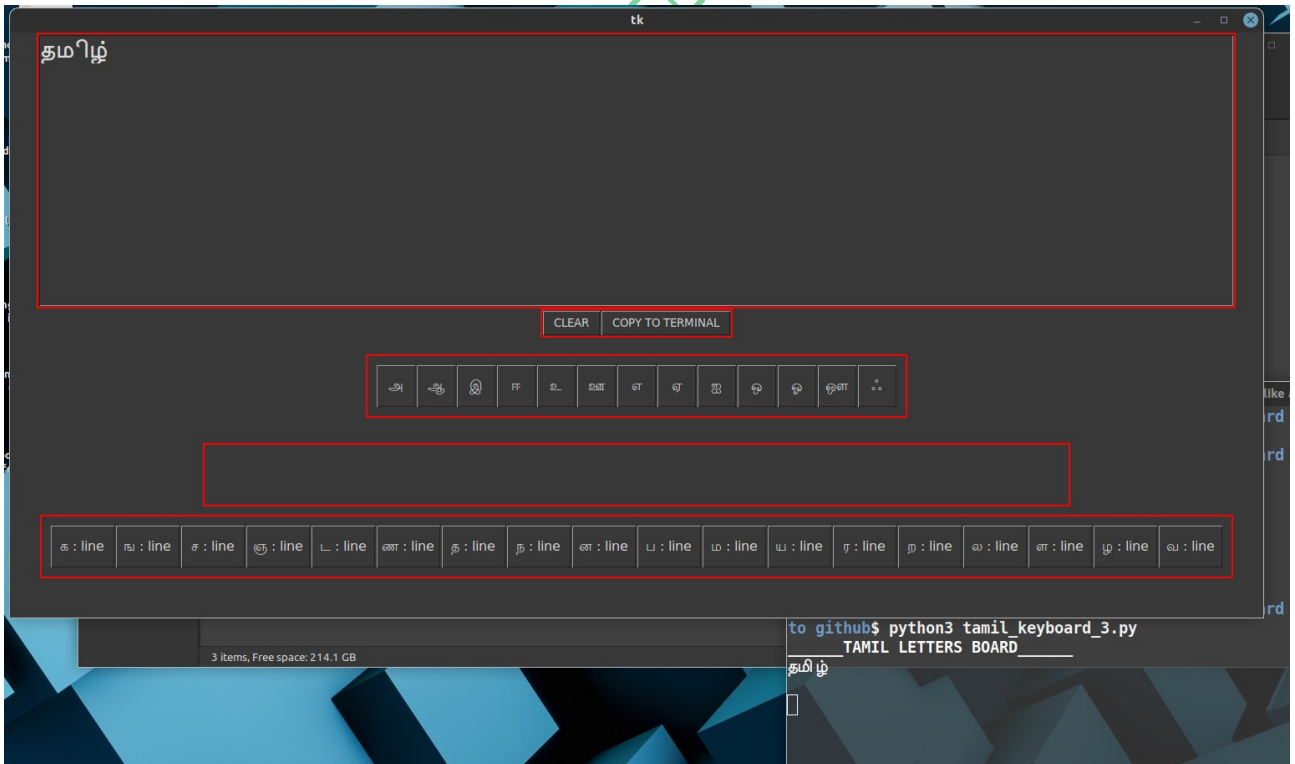
Developed By:
M.Balakrishnan B.Tech(IT)

Output :





- start tamil typing.



- Click the -->CLEAR button, delete the all content.
- Click the --> COPY TO TERMINAL button, the text is display on the terminal. Easy to copy the text for another application.