GUI- Thinten

Tkinter: Ilibrary

interface to the TK -) standard python GOT toolkit.

-) used to create graphical user interrepaces (GIVES) for python, applications. the stand of the first to the

-> simple, easy to use.

-> Tkinter allows to create window-based rapplications.

-> Set of tooks to build interfaces, such as buttons, labels, boxes, checkboxes & more.

-) Lightweight.

creating Basic Tkinter window: pobject name

example = t-k. +kc) imposit tkinter as th sobject name. I we can give anymane. 6-j. root = tk. tkl) > kuali mais window we give name for object

root-mainloop 1) -> start Thinker event loop.

Ly croate window. (the window).

loop call



-> th window

smoot termon as the. binter ing root ti hoot title ("Simple GUE")

noot geometry (" soox 200")

soot geometry (" 300x 200") cuidgets: I not giving that widow of 2 300)

there is nowindow root. main loop()

Label -> Display rext or imgs. (Like forms) -> Button -> clicicable ben that can taigger action(si) -> Entry -> single line text box for user ilp.

(Hice ilp element)

-> text -> mutti-line text box for ilp talisplay. (like textonea) Label: - inheritance with parent regate label: 9

parent	parent				
Label: pack	pack	pack	pack	pack	pack
Add label to the pobject name	parent window				
label = tk. Label (800t, text = "Hello, Thinten", fort = 1"Hello, Thinten = label.pack() font ("Arial", 24) root-mainthop () Hellor Tkinter Entry! object romi * simple Give - 11 X entry = tk.entry (800t) Hello, Thinten entry. pack () Root. mainloop()					

Bullon button = tk. Button (Root, text = "clack me") 1 Simple Gos - 11 x button, packer. Hello, Treinter! - slabel -> 5 May click to in Button. CUCKIN SBURTON def welcome 1): Print ("wellome to the Thinter GOI") bult on= tk. Bulton (100t, text="click Me", command = We (come) button. pack () Golf: when I click, click me bin in the window > print idel come welcome on in tornind. (all want he are M all amos and def wellome!): Dushon & curue, btn, change the label text.

label. confige texts = "welome to the Transfer") button = tk. Button (noot, teset = "click Me") command = welcome) Deric toppoor norm by name. bulton · packel) of 4 Simple Gruce - DX ontous x core raine welcome to the rainbor. agair , agair , . - Rubay of Rux Carry to Torice of 6-9, label, label 2, or name, age,. same as for both, entry & FERRE

change label dynamically using entry: If welcome (): in entry and used input = entry get () store it to user-input later. config treat = "welcom label. Longing (result = 4 "welcome to gusen-inputy") button= 6k. Button (Root, text= "click Me", balton - pack () Command = Welcom -> Writially case both -> 18thorns - when open window- shows -> Hello, Tkinter, click ben -> welcome to 11 Give some it in entry (user itp) again click ben -> welcome to (user itp) Basic Layouts en Hainters * Pack () -> paddig, margin [left to Right 1 top to both * grid () -> Rows, Cols. * place () > x, y axis' (possition placed) 1-pacter 3 1. Packer: -> Arranges widgets in blocks e places them in the available spaces. -) widgets are packed in order (top to bottom, left to right)

2. Guid ():
2. Guid (): > places widges in grid s/m, similar to table.
table.
Eg. label = tk. Label (Root, test = "Name:")
Fig label = tk. Label (Root, text = "Name:")
laber. grid (800=0, tolumn =0)=> Row 0,610
entay = tk. Entay (200t)
10 (olumn = 1) 3 Row 0, col
entry. grid (row = 0, column = 1) > Row 0, col-1 if want to add age.
Simple G107 - 11 x age = t/c. Label (xoot, text="gi
Row a Name: [age. grid (xow=1, column=0)
Row 1 7-
col o' col 1
3. place():) using x and y pris.
) Albours for more precise control over the
Placement of widgets by specifying coordinates.
label = tk. Label (Root, text = "Hello")
classel-place (x=50, y=50) -> like graph.
working with Frames: - all whyets places inside fram (workeniner) > suseful for argainsting + grouping widgets. in a
> susque for argainsting + grouping widgets. in a
window.
-> trame is a container for widgets, allow
better org + layout control.

Create grame: frame = Ho - Frame (root) Add widgets inside frame add widget grame instead we can use grame. label-pack() setting - processing (Apol) soot. mainloop () o-mon Ling gradia Text: widget: bext-tk. Root text=tk. Text (Root, height 25, width = 30) teat.paclec) get content \$ 2000 text widges; def get-Content ():

Content = text. get ("1.0", +12. and) Puirt (* Konvent: , Content) Align widgets: label the label two of redal FOR Grid: (102+6 05 x / exuld recomp within grid Call.

1 Micky >> Aligns widgets sticky = "e" > both side sticky = "n" > Nop sticky = "s"> bottom sticky = "w" > Left 5 (6)