**Button** (activebackground,activeforeground,bd,command,fg, font,height,highlightcolor, image,justify

padx,pady,relief,state,underline,width,wraplength)

**Canvas**(root, options,....,)

bd,bg,confine,cursor,height,highlightcolor,relief,scrollregion,width,xscrollincrement,xscrollcommand,yscrollincrement,yscrollcommand

**Canvas.create\_arc**(coord'4points',start=0,extent=150,fill="blue")

**canvas.create\_image**(50,50,anchor=NE,image=filename)

**canvas.create\_line**(x0,y0,x1,y1,....xn,yn,options)

**canvas.create\_oval**(x0,y0,x1,y1,options)

**canvas.create\_polygon**(x0,yo,x1,y1,...xn,yn,options)

**Checkbutton(root, options, ....)**

**options:** activebackground, bg ,bitmap,bd, command, cursor,

disableforeground,font,fg ,height,highlightcolor

image,justify,offvalue,onvalue,padx,pady,relief,selectcolor,selectimage,state,text,underline,variable,width,wraplength

Method:-**deselect(), flash(),invoke() select() , toggle(),**

**deselect():-**Clears(turns off) the checkbutton ,

**flash():-**Flashes the checkbutton a few times between its active and normal colors,but leaves it the way it started

**invoke() ,** **select() , toggle()**

**Entry(root,options,....)**

**Options:-**bg ,bd , command , cursor , font , exportselection , fg , highlightcolor, justify ,

relief , selectbackground , selectbackground , selectborderwidth , selectforeground , show

state , textvariable , width , xscrollcommand

Methods:-

**delete(first , last = None)** **, get() , icursor(index),index(index),insert(index,s),**

select\_adjust(index) , **select\_clear(),select\_from(index),select\_present(),select\_range(start,end)**

select\_to(index),xview(index), xview\_scroll(number,what)

**Frame (root,options,....):-**Frame(root,options,....,)

Options:-bg , bd , cursor , height , highlightcolor , highlighcolor , hightlightthickness, relief,width

**Label(root,options,....)**

Options:- anchor , bg , bitmap , bd , cursor , font , fg , height , image , justify , padx , pady ,relief ,text , textvariable ,underline , width , wraplength ,

**Listbox(root,options...)**

Options:-bg ,cursor , font , fg , height , highlightcolor , highlightthickness , relief ,

selectbackground , selectmode (BROWSE , SINGLE , MULTIPLE , EXTENDED) ,width ,xscrollcommand , yscrollcommand

Methods:-active(index),curselection , delete(first,last=None), get(first,last=None),index(i),insert(index , \*elements)

nearest(y) , see(index) , size(), xview() , xview\_moveto(fraction) , xview\_moveto(fraction),

xview\_moveto(fraction) ,xview\_scroll(number,what) ,yview\_moveto(fraction) , yview\_scroll(number,what)

**Menubutton(root,options,....)**

Options:-activebackground, activeforeground, anchor, bg ,bitmap , bd , cursor, disableforeground ,fg , height,highlightcolor, image,justify ,menu,padx , pady, relief , state , text , textvariable, underline, width,wraplength

**Menu(root,options,...)**

**Options:-**activebackground, activeborderwidth, activeforeground , bg , bd, cursor , disableforeground ,

font , fg , postcommand , relief , image , selectcolor , tearoff , title

**Methods:**

add\_command(options) ,add\_radiobutton(optins) , **add\_checkbutton**(options),**add\_cascade(options)** , **add\_separator(),**add(type,options) , delete(startindex[,endindex]),entryconfig(index,options) , index(item),insert\_separator(index),

invoke(index) , type(index)

**Message(root,options,...)**

Options:-anchor , bg , bitmap , bd , cursor , font , fg ,height , image ,justify ,padx , pady , relief,text , textvariable ,underline , width , wraplength ,

**Radiobutton(root,optins,...)**

Options:-activebackground, activeforeground , anchor , bg ,bitmap , borderwidth command , cursor,font,fg,height,highlightbackground, image ,justify , padx , pady , relief , selectcolor , selectimage , state , text , textvariable, underline ,value , variable , width , wraplength

Methods:-deselect() , flash() , invoke() , select() ,

**Scale(root,options,...)**

Options:- activebackground , bg , command , cursor ,digits,font , fg , from\_ ,highlightbackground, highlightcolor, label,length,orient, relief, repeatdelay , resolution, showvalue , sliderlength , state , takefocus ,tickinterval,to, throughcolor , variable , width ,

**Methods:-get() , set(value)** ,

**Scrollbar(root, options,...)**

Options:-activebackground , bg, bd ., command , cursor ,elementborderwidth , highlightbackground , highlightcolor , highlightthickness , jump,

orient , repeatdelay , repeatinterval , takefocus , troughcolor , width ,Methods:get() , set(first,last)

**Text(root,options,...)**

Options:-bg , bd , cursor , exportselection , font , fg , height , highlightbackground , highlightcolor ,

hightlightthickness ,insertbackground ,insertborderwidth , insertofftime , insertontime , insertwidth

padx , pady, relief,selectbackground , selectborderwidth , spacing1 , spacing2 , spacing3 , state , tabs,state , tabs , width , wrap ,xcrollcommand , yscrollcommand

Methods:- delete(startindex, [,endindex]) , get(startindex[,endindex]) , index(index) ,see(index),

Methods:-index(mark) , mark\_gravity(mark[,gravity]) , mark\_names() , mark\_set(mark,index) ,mark\_unset(mark)

Methods&Description:-

tag\_add(tagname,startindex[,endindex]..),tag\_config,tag\_delete(tagname) ,tag\_remove(tagname[,startindex[.endindex]...]

**Toplevel(root,options)**

Options:-bg , bd , cursor , class\_ , font , fg , height , relief , width ,

Methods:- deiconify() , frame() , group(window) , group(window) ,iconify() ,state() ,transient([master]),

withdraw(),maxsize(width,height) ,minsize(width,height)positionfrom(who) ,resizable(width,height) ,sizefrom(who),title(string)

**Spinbox(root,options)**

Options:-activebackground , bg , bd , command , cursor , disablebackground , disableforeground , fg , font ,format , from\_ , justify , relief , repeatdelay , repeatinterval , state , textvariable , to , validate , validatecommand,

values , vcmd , width ,xscrollcommand ,

**Methods:-**delete(startindex [,endindes]) , get(startindex[,endindex]),identify(x,y) ,index(index) ,

insert(index[,string...],invoke(element)

**PanedWindow(root,options,..,)**

Options:-bg , bd , borderwidth , cursor , handlepad , handlepad , handlesize , height , orient ,relief,sashcursor , sashrelief,sashwidth , showhandle , width

**Methods:-** add(child,options),get(startindex[,endindex]) ,config(options)

**LabelFrame(root,options,...)**

Options:-bg , bd , cursor , font , height , labelAnchor , highlightbackground , highlightthickness,relief , text , width ,

**tkMessageBox :-** tkMessaqgeBox module is used to display message boxes in your applications.

Syantax:

tkMessageBox.FunctionName(title , message [,options])

FunctionName:-name of the appropriate message box function.

title:- text to be displayed as a message

options:- alternatiove choices that you may use to tailor astandard message box.

tkMessageBox:-functions:-

**showinfo() , showwarning() , showerror() , askquestion() ,askokcancel() ,askyesno() ,askretrycancel() ,**