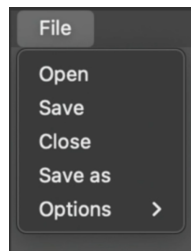


Menu Widget

- It is useful for providing menu options to the use so that they can perform some operations in the application
- Almost all the applications will have Menu
- Example



- The important options of a menu widget are

Menu Options	
Options	Description
<code>postcommand</code>	Handler for menu popup
<code>tearoff</code>	<code>tearoff=0</code>

- The meaning of tearoff menu is we can drag and move the menu
- The **Methods** of menu widget are

Menu Method		
	Menu Method	Description
<code>add(kind, caption)</code>	<code>add_cascade(caption, ...)</code>	Add new cascade element as next choice in the menu
	<code>add_checkbutton(caption, ...)</code>	Add new checkbutton as next choice in self
	<code>add_command(caption, ...)</code>	Add new command as next choice in self
	<code>add_radiobutton(caption, ...)</code>	Add new radiobutton as next choice in self
	<code>add_separator()</code>	Add separator after last defined option
	<code>add(kind, caption, ...)</code>	Add new element of given <i>kind</i> as next choice in this menu
<code>delete(index1, index2=None)</code>	<code>delete(index1, index2=None)</code>	Delete choices numbered from <i>index1</i> to <i>index2</i>
<code>insert(index, caption)</code>	<code>insert_cascade(index, caption, ...)</code>	Inserts new cascade at the specified index position
	<code>insert_checkbutton(index, caption, ...)</code>	Insert checkbutton at given index position
	<code>insert_command(index, caption, ...)</code>	Insert command at position <i>index</i>
	<code>insert_radiobutton(index, caption, ...)</code>	Insert radiobutton at position <i>index</i>
	<code>insert_separator(index)</code>	Insert separator at given index position
<code>entry(index, caption)</code>	<code>entryget(index, caption)</code>	Retrieve current value of caption
	<code>entryconfigure(index, caption, ...)</code>	Change current value of caption
Popup Menu	<code>tk_popup()</code>	Display menu at specified position (<i>x, y</i>)

- add() is used to add various options to the menu like check button, radio button ,sub menu and command
- insert() option is same as add the difference between them is add() will add the values at the end of the list where as insert() will add values anywhere in the list
- To delete any option we can use the delete()
- tk_popup() is used for defining a pop up menu
- Every entry inside the menu can be configured using the entry() we can also set and get the values for these options
- Example Application of Menu Widget

```
from tkinter import *

def myhandler():
    txt1.insert(1.0, 'Hello World')

win = Tk()
win.geometry('600x400')

txt1 = Text(win)
txt1.pack(fill=BOTH)

menubar = Menu(win)
win['menu'] = menubar

file = Menu(menubar)
menubar.add_cascade(label='File', menu=file)

file.add_command(label='New', command=myhandler)
file.add_command(label='Open')
file.add(itemType='command', label='Save')
file.add_separator()
file.add_checkbutton(label='Save as', onvalue=1, offvalue=0)

rad1 = Menu(file)
rad1.add_radiobutton(label='Option 1')
rad1.add_radiobutton(label='Option 2')
rad1.add_radiobutton(label='Option 3')
file.add_cascade(label='Options', menu=rad1)
```