Entry Widget

• This widget is useful for taking a single line text



• The options available for an entry widget are



- At times we want to use this widget as the Password widget where the user can type the text which should not be visible
- This can be done by using the show = " * " option, so when the user type the password * is shown instead of the text
- Usually we try to validate the content inside the entry widget in real time this can be done using validate and the options it take are focus, focusin, focusout, key, all, none
- You can mention when you want to validate 3

- It is necessary to have a handler in order to validate the contents inside the widget and using the validatecommand option we can achieve that
- Through the validate command we can know the current text, the new text typed after the text, for knowing this the control characters are mentioned above
- The Methods available in the entry widget are



- get() will give you the current content inside the entry widget
- insert(index, s) is used to insert any text in it
- delete(first, last = None) is used for deleting the existing text from the widget
- The remaining methods are useful for selecting the contents for instance
- To select text from the current cursor position select_to(index) is used
- To clear the selections we made, select_clear() is used
- We can also mention the range and do the selection, select_range(start,end)
- To position the cursor at a certain position icursor(index) is used

· Few Example of selection methods are

```
from tkinter import *

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

var1 = StringVar(value='Hello World')
ent1 = Entry(win, textvariable=var1)
ent1.pack()
ent1.focus()
ent1.ipursor(4)
ent1.select_range(2,10)
```

• An example of **insertion** is given below

```
from tkinter import *

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

var1 = StringVar(value='Hello World')
ent1 = Entry(win, textvariable=var1)
ent1.pack()
ent1.insert(0, 'AATA')

win.mainloop()
```

• An example of **Deletion** is given below

• An example of making the widget as the password widget its given below

```
from tkinter import *

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

var1 = StringVar(value='Hello World')
ent1 = Entry(win, textvariable=var1, show='*')
ent1.pack()

win.mainloop()
```

• For validation we must mention when and how to validate the command

```
from tkinter import *

|
def myhandler(txt):
    if txt.isdfait():
        return False
else:
        return True

#in.s.Jk()
win.geometry('688x488')
handl = (win.register(myhandler), '%S')

var1 = StringVar(value='Hello World')
ent1 = Entry(win, textvariable=var1, validate='key', validatecommand=handl)
ent1.pack()

win.mainloop()
```