

```
In [8]:
```

```
from tkinter import *
```

```
In [25]:
```

```
# tkinter con clases (OOP)
```

```
class AppWindow():
```

```
    # master == root
```

```
    def __init__(self, master):
```

```
        frame = Frame(master)
```

```
        frame.pack()
```

```
        self.label = Label(frame, text="Status", font="Arial 10 bold")
```

```
        self.label.pack()
```

```
        self.printButton = Button(frame, text="Click")
```

```
        self.printButton.pack(side=LEFT)
```

```
        self.quitButton = Button(frame, text="Salir", command=master.destroy)
```

```
        self.quitButton.pack(side=LEFT)
```

```
        self.printButton.bind("<Button-1>", self.printIzquierda)
```

```
        self.printButton.bind("<Button-2>", self.printMedio)
```

```
        self.printButton.bind("<Button-3>", self.printDerecha)
```

```
    def printIzquierda(self, event):
```

```
        self.label.config(text="Izquierda", bg="red")
```

```
    def printMedio(self, event):
```

```
        self.label.config(text="Medio", bg="brown")
```

```
    def printDerecha(self, event):
```

```
        self.label.config(text="Derecha", bg="green")
```

```
root = Tk()
```

```
App = AppWindow(root)
```

```
root.mainloop()
```

```
In [1]:  
#calculadora simple  
  
class SimpleCalc():  
  
    def __init__(self, master):  
        master.resizable(0, 0)  
        master.title("Simple Calc")  
  
        frame = Frame(master)  
        frame.grid(row=0, column=0, padx=10, pady=20)  
  
        frameBtn = Frame(master)  
        frameBtn.grid(row=0, column=1, padx=5)  
  
        #intVar = IntVar()  
        #dblVar = DoubleVar()
```

```
#strVar = StringVar()
#boolVar = BooleanVar()
self.num1 = DoubleVar(value=0.0) #self.num1.set(0.0)
self.num2 = DoubleVar(value=0.0) #self.num2.set(0.0)

# Asigno un valor a un variable var.set()
# Se lee el valor de un variable: var.get()
self.lblNum1 = Label(frame, text="Numero 1")
self.lblNum2 = Label(frame, text="Numero 2")
self.inpNum1 = Entry(frame, textvariable=self.num1)
self.inpNum2 = Entry(frame, textvariable=self.num2)
self.lblResult = Label(frame, text="Resultado :")
self.btnSum = Button(frameBtn, text="+", width=2,
                     command=self.printSum)
self.btnRes = Button(frameBtn, text="-", width=2,
                     command=self.printRes)
self.btnMul = Button(frameBtn, text="x", width=2,
                     command=self.printMul)
self.btnDiv = Button(frameBtn, text="/", width=2,
                     command=self.printDiv)

self.lblNum1.grid(row=0, column=0)
self.lblNum2.grid(row=1, column=0)
self.inpNum1.grid(row=0, column=1)
self.inpNum2.grid(row=1, column=1)
self.lblResult.grid(row=2, column=0, columnspan=2, sticky=W)
self.btnSum.grid(row=0, column=0, sticky=NW)
self.btnRes.grid(row=0, column=1, sticky=NW)
self.btnMul.grid(row=1, column=0, sticky=NW)
self.btnDiv.grid(row=1, column=1, sticky=NW)

def printSum(self):
    try:
        self.lblResult.config(text="Resultado: {:.4f}".\
                                format(self.num1.get() + self.num2.get()))
    except:
        pass

def printRes(self):
    try:
        self.lblResult.config(text="Resultado: {:.4f}".\
                                format(self.num1.get() - self.num2.get()))
    except:
        pass

def printMul(self):
    try:
        self.lblResult.config(text="Resultado: {:.4f}".\
                                format(self.num1.get() * self.num2.get()))
    except:
        pass

def printDiv(self):
    try:
        self.lblResult.config(text="Resultado: {:.4f}".\
                                format(self.num1.get() / self.num2.get()))
    except:
        pass
```

```
def main():  
    root = Tk()  
    App = SimpleCalc(root)  
    root.mainloop()  
  
# Guarda del archivo main  
if __name__ == '__main__':  
    main()
```

```
-----  
NameError                                Traceback (most recent call last)  
<ipython-input-1-476fa49df82f> in <module>  
    83 # Guarda del archivo main  
    84 if __name__ == '__main__':  
--> 85     main()  
  
<ipython-input-1-476fa49df82f> in main()  
    77  
    78 def main():  
--> 79     root = Tk()  
    80     App = SimpleCalc(root)  
    81     root.mainloop()  
  
NameError: name 'Tk' is not defined
```

In [ ]: