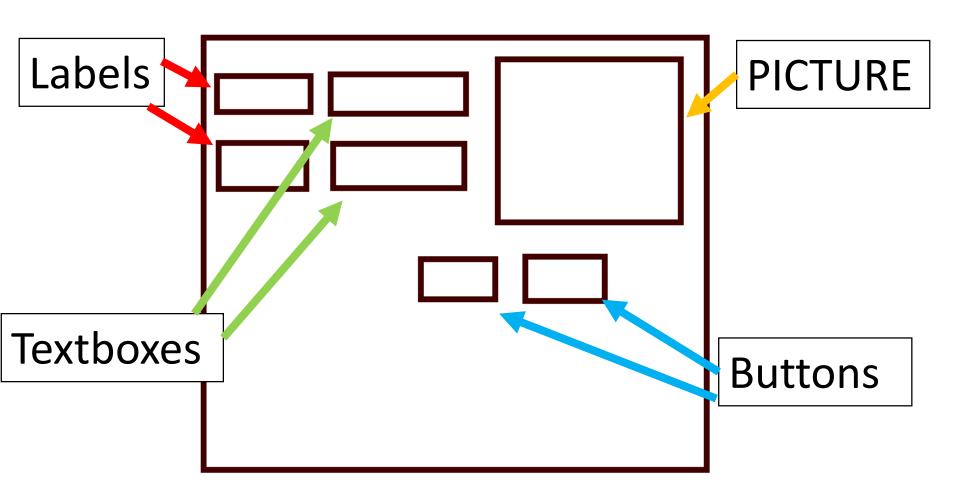
## Python

GUI

#### Plan the window

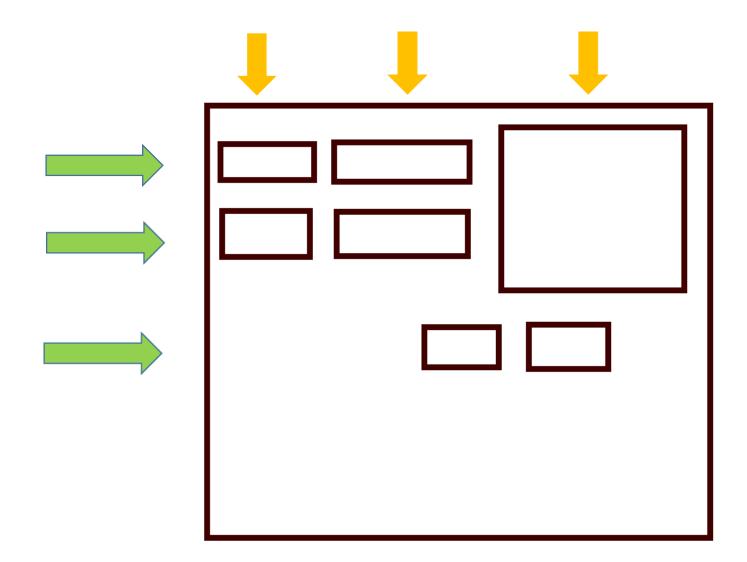
Layout the Window Where the Buttons, labels Textboxes and Pictures will be

### Window design

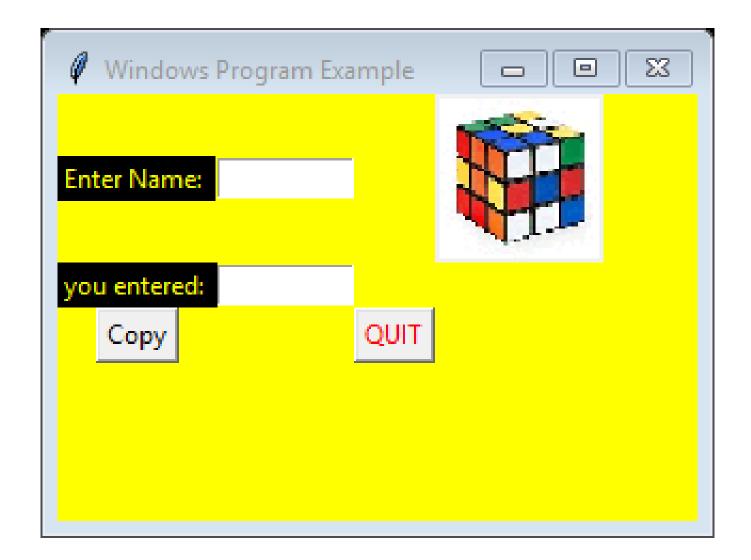


#### Grid: Row & Column

ROW COLUMN



#### When Finished



#### CODE

Multiple Slides
Type in carefully
Be sure to test program

1 of

```
import tkinter
def movit(txtbox,txtbox2):
  txtbox2.insert(0,txtbox.get())
  return
def clrit(txtbox,txtbox2):
  txtbox.delete(0,"end")
  txtbox2.delete(0,"end")
  return
```

```
def createwindow():
  mainwin = tkinter.Tk()
  mainwin.title("Windows Program Example")
  mainwin.geometry('300x200')
  mainwin["bg"] = 'yellow'
  txt = tkinter.Label(mainwin,
         text="Python Window Program",
         fg = "red")
```

return (mainwin,txt)

```
def labeltxt(mainwin):
  txtboxlbl = tkinter.Label(mainwin,
           text="Enter Name: ",
           fg = "yellow",
           bg = 'black')
  txtboxlbl.grid(row=0,column=0)
  txtbox = tkinter.Entry(mainwin,width=10)
  txtbox.grid(row=0,column=1)
  return (txtboxlbl,txtbox)
```

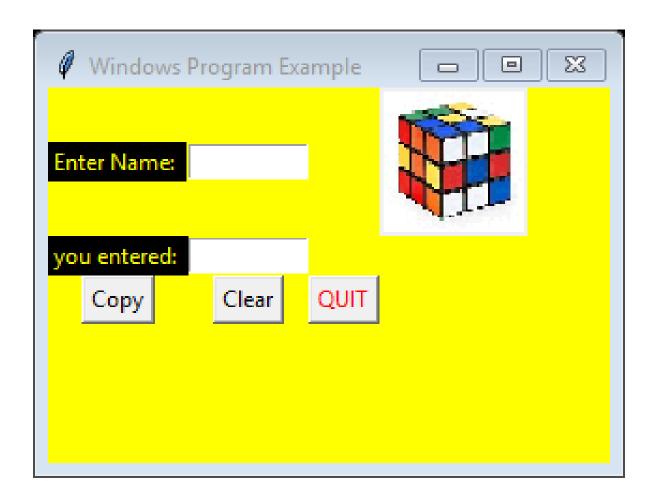
```
def labeltxt2(mainwin):
  txtboxlbl2 = tkinter.Label(mainwin,
           text="you entered: ",
           fg = "yellow",
           bg = 'black')
  txtboxlbl2.grid(row=1,column=0)
  txtbox2 = tkinter.Entry(mainwin,width=10)
  txtbox2.grid(row=1,column=1)
  return (txtboxlbl2,txtbox2)
```

```
5 of 6
```

```
def btns(mainwin,txtbox,txtbox2):
  cmdcopy = tkinter.Button(mainwin,
          text="Copy",
          command=lambda : movit(txtbox,txtbox2))
  cmdcopy.grid(row=4,column=0)
  cmdclear = tkinter.Button(mainwin,
          text="Clear",
          command=lambda : clrit(txtbox,txtbox2))
  cmdclear.grid(row=4,column=1)
  cmdquit = tkinter.Button(mainwin,
          text="QUIT",
          fg="red",
          command=quit)
  cmdquit.grid(row=4,column=2)
  return (cmdquit,cmdcopy,cmdclear)
```

```
def main():
  (mainwin,txt) = createwindow()
  (txtboxlbl,txtbox) = labeltxt(mainwin)
  (txtboxlbl2,txtbox2) = labeltxt2(mainwin)
  (cmdquit,cmdcopy,cmdclear)=btns(mainwin,txtbox,txtbox2)
  pic1=tkinter.PhotoImage(file="square.gif")
  txt2=tkinter.Label(mainwin,image=pic1).grid(row=0, column=7)
  tkinter.mainloop()
main()
```

# Run the Program Get This:



#### Whole program

```
import tkinter
def movit(txtbox,txtbox2):
  txtbox2.insert(0,txtbox.get())
  return
def clrit(txtbox,txtbox2):
  txtbox.delete(0,"end")
  txtbox2.delete(0,"end")
  return
def createwindow():
  mainwin = tkinter.Tk()
  mainwin.title("Windows Program Example")
  mainwin.geometry('300x200')
 mainwin["bg"] = 'yellow'
 txt = tkinter.Label(mainwin,
         text="Python Window Program",
         fg = "red")
  return (mainwin,txt)
def labeltxt(mainwin):
  txtboxlbl = tkinter.Label(mainwin,
          text="Enter Name: ",
          fg = "yellow",
          bg = 'black')
  txtboxlbl.grid(row=0,column=0)
  txtbox = tkinter.Entry(mainwin,width=10)
  txtbox.grid(row=0,column=1)
  return (txtboxlbl,txtbox)
def labeltxt2(mainwin):
  txtboxlbl2 = tkinter.Label(mainwin,
          text="you entered: ",
          fg = "yellow",
          bg = 'black')
  txtboxlbl2.grid(row=1,column=0)
  txtbox2 = tkinter.Entry(mainwin,width=10)
  txtbox2.grid(row=1,column=1)
  return (txtboxlbl2,txtbox2)
```

```
def btns(mainwin,txtbox,txtbox2):
 cmdcopy = tkinter.Button(mainwin,
         text="Copy",
         command=lambda: movit(txtbox,txtbox2))
 cmdcopy.grid(row=4,column=0)
 cmdclear = tkinter.Button(mainwin,
         text="Clear",
         command=lambda : clrit(txtbox,txtbox2))
 cmdclear.grid(row=4,column=1)
 cmdquit = tkinter.Button(mainwin,
         text="QUIT",
         fg="red",
         command=quit)
 cmdquit.grid(row=4,column=2)
 return (cmdquit,cmdcopy,cmdclear)
def main():
 (mainwin,txt) = createwindow()
 (txtboxlbl,txtbox) = labeltxt(mainwin)
 (txtboxlbl2,txtbox2) = labeltxt2(mainwin)
 (cmdquit,cmdcopy,cmdclear)=btns(mainwin,txtbox,txtbox2)
 pic1=tkinter.PhotoImage(file="square.gif")
 txt2=tkinter.Label(mainwin,image=pic1).grid(row=0, column=7)
 tkinter.mainloop()
main()
```

## Done