

Example:

```
import tkinter as t
```

```
# Window Creating
```

```
window=t.Tk()
```

```
window.geometry("400x200+100+100")
```

```
window.title("Calculator")
```

```
#Label Creating
```

```
l1=t.Label(window,text="Number",font=("Arial",14))
```

```
l2=t.Label(window,text="Number",font=("Arial",14))
```

```
l3=t.Label(window,text="Result",font=("Arial",14))
```

```
# Entry Fields Creation
```

```
e1=t.Entry(window,width=20,font=("Arial",14))
```

```
e2=t.Entry(window,width=20,font=("Arial",14))
```

```
e3=t.Entry(window,width=20,font=("Arial",14))
```

```
def add():
```

```
    value1=eval(e1.get())
```

```
    value2=eval(e2.get())
```

```
    value3=value1+value2
```

```
    e3.delete(0,t.END)
    e3.insert(0,str(value3))
def sub():
    value1=eval(e1.get())
    value2=eval(e2.get())
    value3=value1-value2
    e3.delete(0,t.END)
    e3.insert(0,str(value3))
```

```
def multiply():
    value1=eval(e1.get())
    value2=eval(e2.get())
    value3=value1*value2
    e3.delete(0,t.END)
    e3.insert(0,str(value3))
```

```
def div():
    value1=eval(e1.get())
    value2=eval(e2.get())
    value3=value1/value2
    e3.delete(0,t.END)
    e3.insert(0,str(value3))
```

#Button Creation

```
b1=t.Button(window,text="Add",font=("Arial",14),width=10,command
=add)
b2=t.Button(window,text="Sub",font=("Arial",14),width=10,command
=sub)
b3=t.Button(window,text="Div",font=("Arial",14),width=10,command=
div)
b4=t.Button(window,text="Multiply",font=("Arial",14),width=10,comm
and=multiply)
```

Organizing componts/widgets inside window

l1.grid(row=1,column=1)

l2.grid(row=2,column=1)

l3.grid(row=3,column=1)

e1.grid(row=1,column=2)

e2.grid(row=2,column=2)

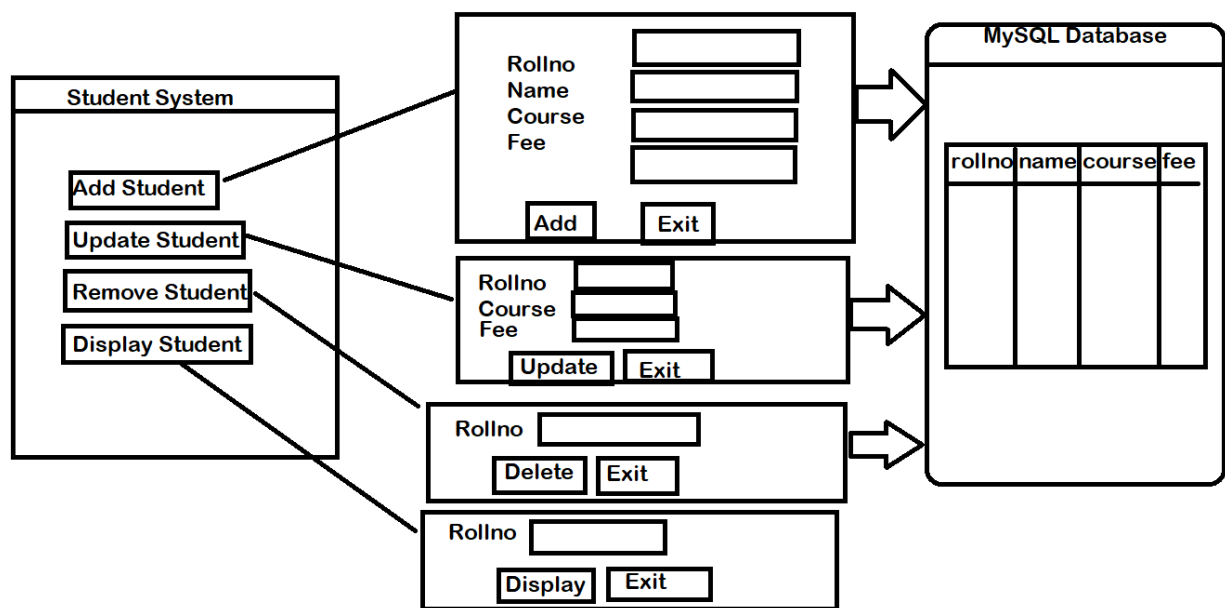
e3.grid(row=3,column=2)

b1.grid(row=4,column=1)

b2.grid(row=4,column=2)

b3.grid(row=5,column=1)

b4.grid(row=5,column=2)



Create table with 4 columns within mysql database

```
mysql> use database10
Database changed
mysql> create table student(rollno integer(5) primary key,
-> name varchar(20) not null,
-> course varchar(20),
-> fee float(10,2));
Query OK, 0 rows affected, 2 warnings (0.10 sec)

mysql> describe student
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| rollno | int           | NO   | PRI | NULL    |       |
| name   | varchar(20)   | NO   |     | NULL    |       |
| course | varchar(20)   | YES  |     | NULL    |       |
| fee    | float(10,2)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)
```

```
import tkinter as t
import mysql.connector
import tkinter.messagebox
```

```
cn=mysql.connector.connect(database="database10",user="root",p
assword="root")
window=t.Tk()
window.geometry("300x300+200+200")
window.title("Student System")
```

Place Buttons

```
def add():
```

```
    awindow=t.Tk()
    awindow.geometry("200x200")
    awindow.title("Adding Student")
```

```
l1=t.Label(awindow,text="Rollno",font=("Arial",15))
l2=t.Label(awindow,text="Name",font=("Arial",15))
l3=t.Label(awindow,text="Course",font=("Arial",15))
l4=t.Label(awindow,text="Fee",font=("Arial",15))
```

```
e1=t.Entry(awindow,width=10,font=("Arial",15))
e2=t.Entry(awindow,width=10,font=("Arial",15))
e3=t.Entry(awindow,width=10,font=("Arial",15))
e4=t.Entry(awindow,width=10,font=("Arial",15))
```

```
def add_student():
    c=cn.cursor()
    try:
        c.execute("insert into student
values(%s,%s,%s,%s)",params=(e1.get(),e2.get(),e3.get(),e4.get()))
        tkinter.messagebox.showinfo(message="Student Added")
        e1.delete(0,t.END)
        e2.delete(0,t.END)
        e3.delete(0,t.END)
        e4.delete(0,t.END)
        cn.commit()
        awindow.destroy()
    except:
        tkinter.messagebox.showerror(message="Unable to Add
Student")
def close_window():
    awindow.destroy()
```

```
b1=t.Button(awindow,text="Add",font=("Arial",15),command=add_st
udent)
```

```
b2=t.Button(awindow,text="Exit",font=("Arial",15),command=close_wi
ndow)
```

```
l1.grid(row=1,column=1)
l2.grid(row=2,column=1)
```

```
l3.grid(row=3,column=1)
l4.grid(row=4,column=1)
```

```
e1.grid(row=1,column=2)
e2.grid(row=2,column=2)
e3.grid(row=3,column=2)
e4.grid(row=4,column=2)
```

```
b1.grid(row=5,column=1)
b2.grid(row=5,column=2)
```

```
def update():
```

```
    pass
```

```
def remove():
```

```
    pass
```

```
def display():
```

```
    pass
```

```
b1=t.Button(window,text="Add
Student",width=20,font=("Arial",15),command=add)
b2=t.Button(window,text="Update
Student",width=20,font=("Arial",15),command=update)
b3=t.Button(window,text="Remove
Student",width=20,font=("Arial",15),command=remove)
b4=t.Button(window,text="Display
Student",width=20,font=("Arial",15),command=display)
```

```
b1.pack()
```

```
b2.pack()
```

```
b3.pack()
```

```
b4.pack()
```