

Python report Day-8

* In this session, we have learn about the,

1) Graphical user interface:-

- * Introduction to Tkinter.
- * setting up a GUI with widgets.
- * connecting GUI widgets with call back functions.
- * Create a Multi-widget GUI (practice)
- * solution.

2) Interacting with a Data bases:-

- * Introduction to "python with data bases".
- * connecting & Inserting data to SQLite via python.
- * Selecting, Inserting, Deleting & updating SQLite records.
- * Introduction to postgresql, Psycopg2.
- * selecting, Inserting, Deleting & updating postgresql records.
- * Querying data from a MySQL database.

Program:-

```
# Create an empty Tkinter window  
Window = Tk()
```

```
def from-kg():
```

```
# Get user value from input box and multiply by 1000 to get  
kilograms.
```

```
gram = float(e2_value.get()) * 1000
```

```
# Get user value from input box & multiply by 2.20462 to  
get pounds
```

```
pound = float(e2_value.get()) * 2.20462
```

```
# Get user value from input box and multiply 35.274 to  
get ounces.
```

```
ounce = float(e2_value.get()) * 35.274.
```

Empty the Test boxes if they had Text from the previous users and fill them again.

ounce = float(e2.value.get()) * 35.274.

H.delete('1.0', END) # delete the content of the Testbox from start to End.

H.insert(END, gram) # Fill in the text box with the Value of gram variable.

H2.delete('1.0', END)

H2.insert(END, pound)

H3.delete('1.0', END)

H3.insert(END, ounce)

Create a Label Widget With 'kg' as label.

e1 = Label(window, text='kg').

e1.grid(row=0, column=0)

e2.value = StringVar() # Create a special StringVar object.

e2 = Entry(window, textvariable=e2.value)

e2.grid(row=0, column=1).

b1.grid(row=0, column=2)

t1 = Text(window, height=1, width=20)

t1.grid(row=1, column=0)

t2 = Text(window, height=1, width=20)

t2.grid(row=1, column=1)

t3 = Text(window, height=1, width=20).

t3.grid(row=1, column=2)

window.mainloop()

3) Data bases:-

You also need a python library that Interacts with MySQL databases. Many libraries are compatible, but I prefer mysql connector. To Install mysql.connector, simply Execute "pip install mysql.connector" (or) "pip install my-sql connector" depending on whether you use pip or pip3. once you Install the library, Try this example

```
import mysql.connector
word = input('Enter a word in english and press Enter:')
con = mysql.connector.connect
{
    user = 'ardit700-student',
    password = 'ardit700-student',
    host = '108.167.140.122',
    database = 'ardit700-pm1 database'
}
cursor = con.cursor()
query = cursor.execute('select * From Dictionary WHERE Expres
                        -ion = "%a"%word')
results = cursor.fetchall()
if results:
    print(results[1])
else:
    print("We couldn't find any results about that")
}
```