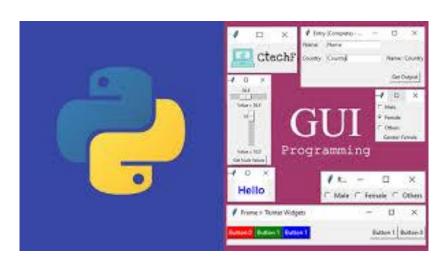


# **Pandemic Analytics**

# 2.2 Creating GUI using Tkinter



Day: **2** 

Session: 2

ETD: 20 min



#### Recap



#### Functions to calculate

- IFR
- CMR



#### **PyGUI**

- WYSWYG-GUI is a desktop app that provides you with an interface that helps you to interact with the computers and enriches your experience of giving a command (command-line input) to your code.
- They are used to perform different tasks in desktops, laptops, and other electronic devices, etc.



#### Continue...

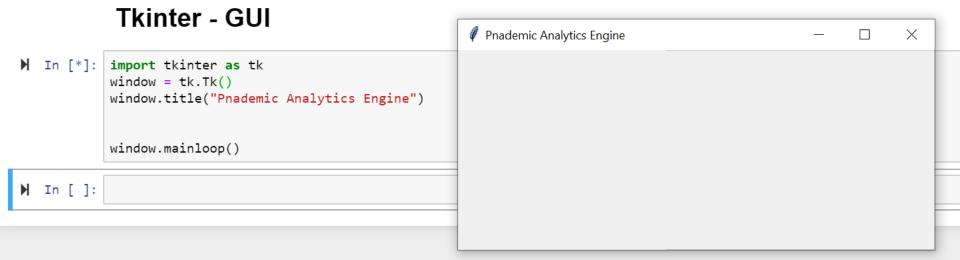
Some of the applications where the power of GUI is utilized are

- Creating a Calculator which would have a userinterface and functionalities that persists in a calculator.
- Text-Editors, IDE's for coding are on a GUI app.



#### **Overview of Tkinter**

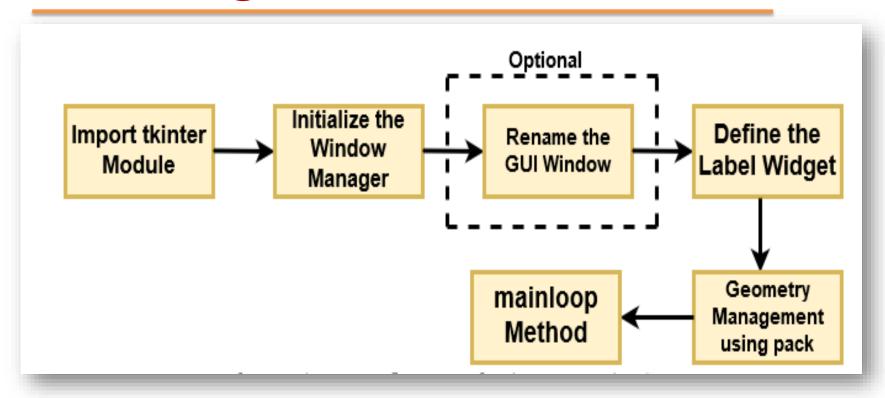
- Tkinter commonly comes bundled with Python, using Tk and is Python's standard GUI framework.
- It is famous for its simplicity and graphical user interface.
- It is open-source and available under the Python License



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# Flow diagram of tkinter



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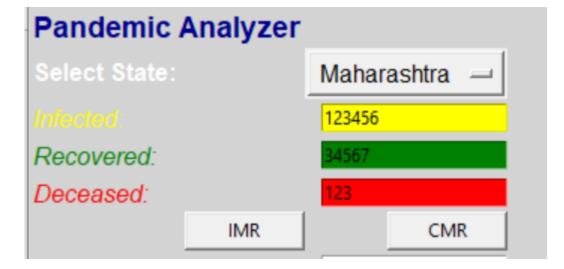
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# Widgets

- Widgets are similar in spirit to elements in HTML
- There is different types of widgets for different types of elements in the Tkinter.
- They are standard GUI elements and provide the user with controls like buttons, text, menus, and

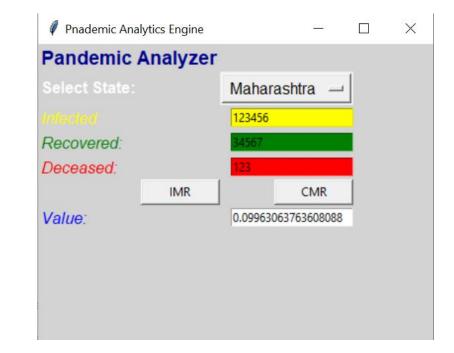
text boxes





### **Geometry Management**

- All widgets in Tkinter have some geometry measurements.
- These geometry measurements allow you to organize the widgets and throughout the parent frames or parent widget area.
- Tkinter provides three main geometry manager



classes:

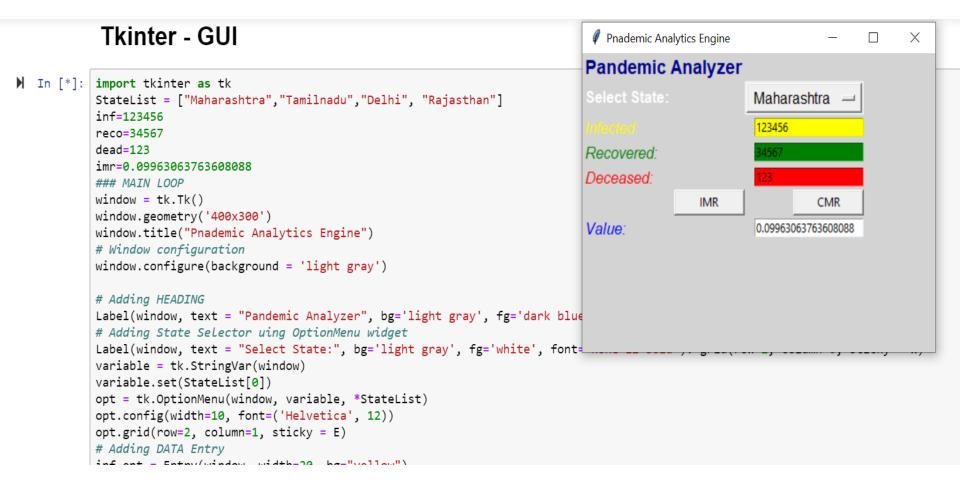


#### Continue...

- •pack(): It organizes the widgets in a block manner, and the complete available width is occupied by it. It's a conventional method to show the widgets in the window.
- •grid(): It organizes the widgets in a table-like structure. You will learn about it in detail later in this tutorial.
- •place(): Its purpose is to place the widgets at a specific position as instructed by the user in the parent widget.

#### Create your own Pandemic Analyzer









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## Take away...



- PyGUI
- Overview of tkinter
- Creating GUI using tkinter



# Day 2 Session 3

☐ Working with Data in Python