CURRENCY CONVERTER PROJECT WITH GUI

by;

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STEPS TO BUILD THE PYTHON PROJECT ON CURRENCY CONVERTER

- 1.Import the necessary Libraries
- 2. Creating a GUI window
- 3. Currency Converter Class
- 4.UI for Currency Converter
- 5. Main Function

1.IMPORT THE LIBRARIES

- Tkinter-It is the inbuilt python module that is used to create GUI applications. To install Tkinter, go to command prompt and type pip install tkinter
- import tkinter as tk
- •from currency_converter import CurrencyConverter

2.CREATING A GUI WINDOW AND HEADING FOR IT

- •window = tk.Tk()This line of code automatically creates a GUI window with a title bar
- We can change the title using title of root window using window.title("")
- •window = tk.Tk()
- •window.geometry("800x360")
- •window.title("Currency Converter")

3.CURRENCY CONVERTER CLASS

- Create a 'CurrencyConverter 'object named 'c' from the import class
- •# Create a CurrencyConverter object
- •c = CurrencyConverter()

4.UI FOR PYTHON CURRENCY CONVERTER PROJECT

- Define label for various parts of the interface(title ,input label and result)
- Create entry widgets for user input(amount and currencies)
- Add a button for a triggering the conversion
- Place the widgets in the window using 'place()'
- Add Dropdown menu for source currency
- # Labels
- 11 = tk.Label(window, text="Currency Converter", font="Times 25 bold")
- 11.place(x=100, y=30)
- 12 = tk.Label(window, text="Enter amount here:", font="Times 18 bold")
- 12.place(x=50, y=80)
- 13 = tk.Label(window, text="Select Source Currency:", font="Times 18 bold")
- 13.place(x=50, y=130)
- 14 = tk.Label(window, text="Select Target Currency:", font="Times 18 bold")
- 14.place(x=50, y=180)

CONTINUE...

- •# Entry widget for amount
- •e1 = tk.Entry(window)
- •e1.place(x=300, y=90)

- # Button
- b1 = tk.Button(window, text="Convert", command=clicked)
- •b1.place(x=230, y=240)
- b2 = tk.Button(window, text="Clear", command=clear)
- •b2.place(x=320, y=240)

CONTINUE.....

- # Dropdown menu for source currency
- source_currency_list = ['USD',
 'EUR', 'JPY', 'GBP', 'AUD','INR']
- var_source_currency =
 tk.StringVar()
- var_source_currency.set(source_curr ency_list[0])
- source_currency_menu =
 tk.OptionMenu(window,
 var_source_currency,
 *source_currency_list)
- source_currency_menu.place(x=300, y=140)

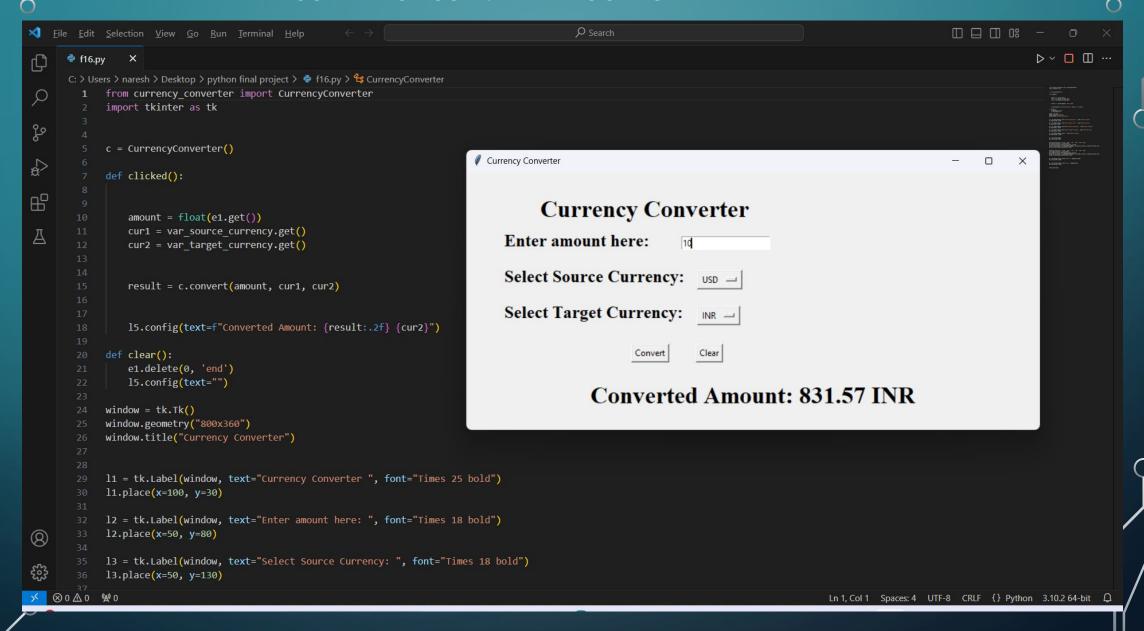
- # Dropdown menu for target currency
- target_currency_list = ['USD',
 'EUR', 'JPY', 'GBP', 'AUD', 'INR']
- var_target_currency = tk.StringVar()
- var_target_currency.set(target_curre ncy_list[0])
- target_currency_menu =
 tk.OptionMenu(window,
 var_target_currency,
 *target_currency_list)
- target_currency_menu.place(x=300, y=190)

5.MAIN FUNCTION

- Define a clicked() function that gets called when the "Convert" button is clicked.
- Inside clicked(), retrieve the user input values from entry widgets, perform the currency conversion using the CurrencyConverter object, and update the result label with the converted amount.
- Finally, start the main event loop using window.mainloop(), which keeps the GUI application running and responsive to user interactions

```
•def clicked():
    # Retrieve values from entry widgets
    amount = float(e1.get())
    cur1 = var_source_currency.get()
    cur2 = var_target_currency.get()
    # Perform the currency conversion
    result = c.convert(amount, cur1, cur2)
    # Update the result label
    15.config(text=f"Converted Amount: {result:.2f}
{cur2}")
```

CURRENCY CONVERTER OUTPUT



SUMMARY

- •With this project in python, we have successfully developed and executed the real time Currency Converter Project.
- We used tkinter and currency_converter modules to develop our project.
- •Executing different functions and using many widgets and using labels us to develop our python programming skills

