Python Project Overview

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Project : Currency Converter App

GitHub Link:

https://github.com/tuheed55/Bano_Qabil_2.0_Final_Project

Team members:

1. Muhammad Tuheed Ahmed
2. Muhammad Hammad
3. Muhammad Mazz

Project overview,

The Currency Converter App is an application designed to facilitate the conversion of various currencies. The app fetches exchange rates and allows users to convert an amount from one currency to another seamlessly.

Key Features:

1. **Real-Time Exchange Rates:**
    - The app uses the Currency Converter Library to fetch the exchange rates for different currencies.

2. **GUI Interface:**

    - The application provides a simple and intuitive interface using Tkinter, a standard GUI toolkit for Python.

3. **User-Friendly Interface:**

    - The app interface provides a straightforward form where users can input the amount, select the source currency, and choose the target currency.

4. **Currency Selection:**

    - . User can select the currency they want to convert using dropdown menu.

5. **Result Display:**

    - The converted amount is displayed to the user, providing a clear and concise output.

6. **Error Handling:**

    - The application handles various error gracefully, such as invalid input or failure to fetch exchange rates.

Usage:

1. Users access the app.
2. Input the amount to convert.
3. Select the source and target currencies.
4. Click the "Convert" button.
5. The converted amount is displayed on the page.

Supported Currencies:

- United State Dollar (USD)
- Euro (EUR)
- Indian Rupee (INR)
- United Kingdom (GBP)
- Newzeland Dollar (NZD)

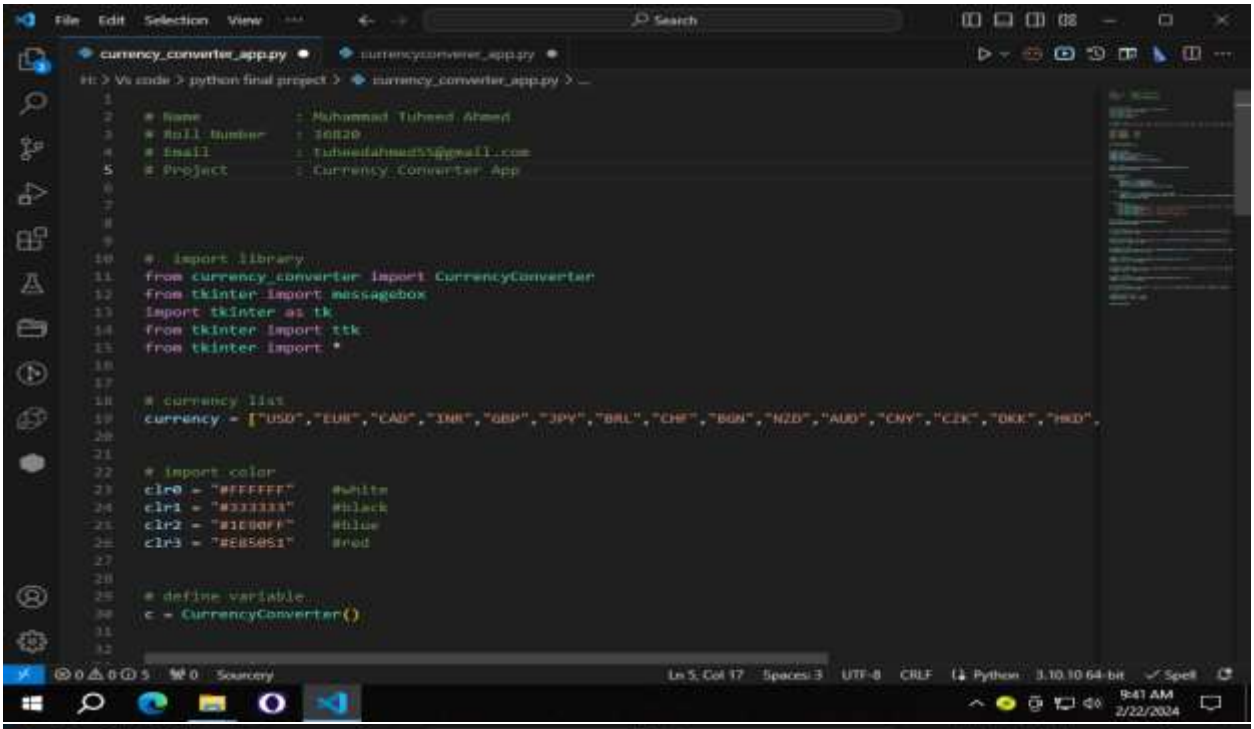
- Australian Dollar (AUD)
- Japaness Yen (JPY)
- Canadian Dollar (CAD)
- Brazil (BRL)
- Chiness Yuan (CNY)
- Bulgaria (BGN)
- Czech Republic (CZK)
- Denmark (DKK)
- Hong Kong Dollar (HKD)
- Hungary (HUF)
- Iceland (ISK)
- Indonesia (IDR)
- Korea (KRW)
- Switzerland (CHF)
- Malaysia (MYR)
- Mexico (MXN)

Steps:

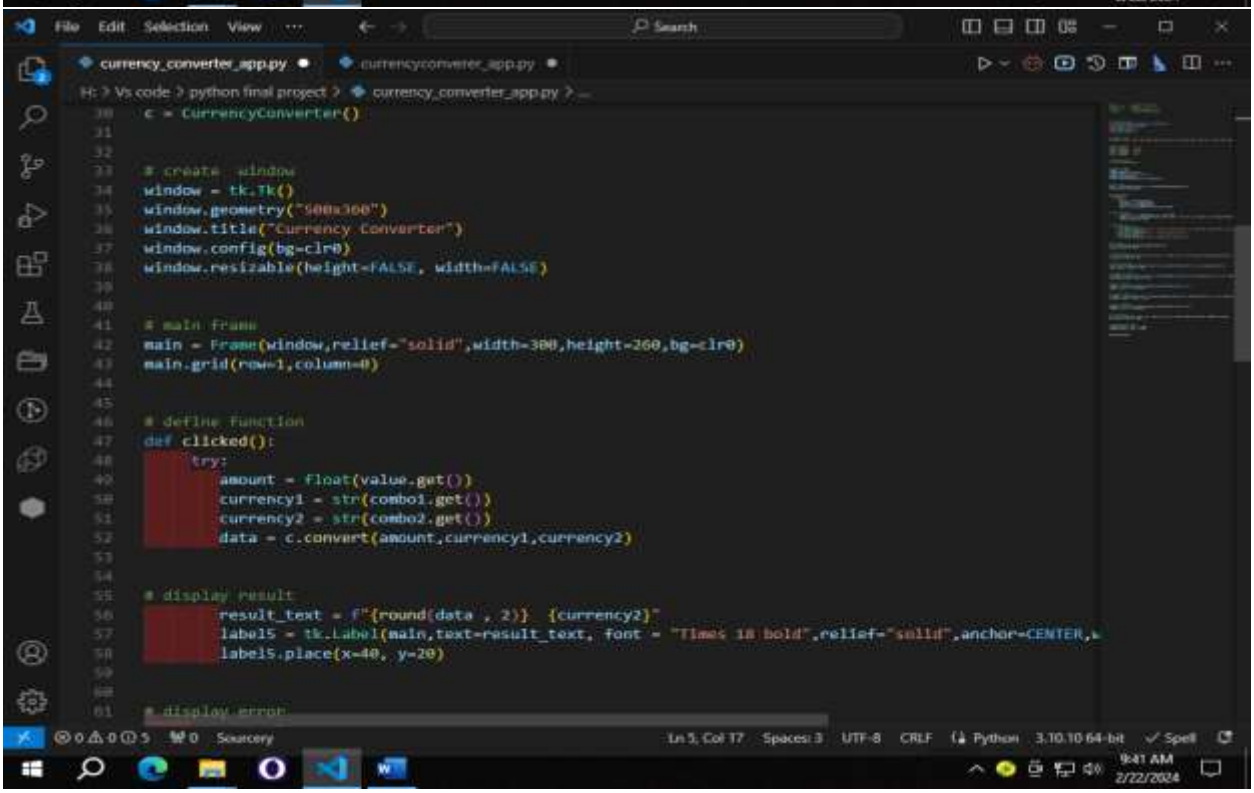
1. Copy pip install currency converter from this URL: CurrencyConverter · PyPI
2. Install this library.
3. Run this code.

Notes:

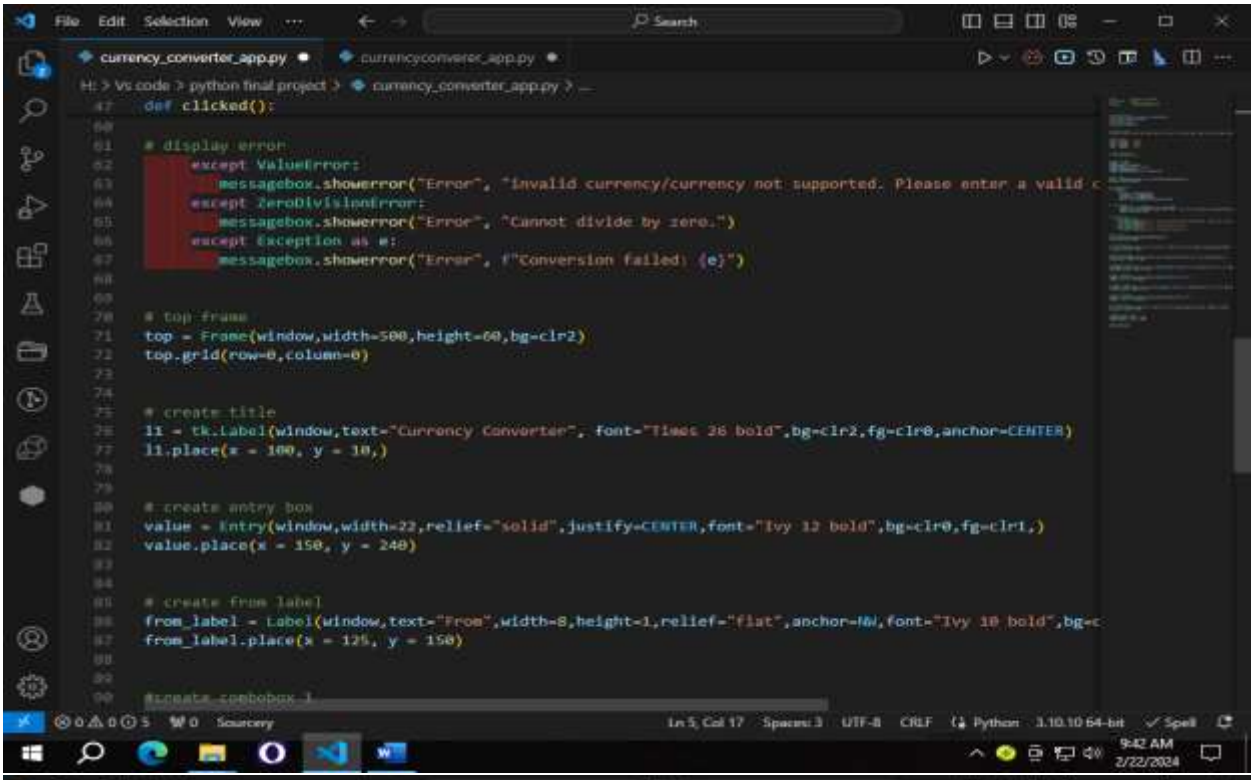
- Ensure that your computer has an active internet connection to fetch the latest exchange rates from the website.
- The application currently supports conversion between USD, EUR, and INR etc. You can modify the code to include additional currencies if needed.
- Feel free to customize the GUI or add additional features to suit your requirements.



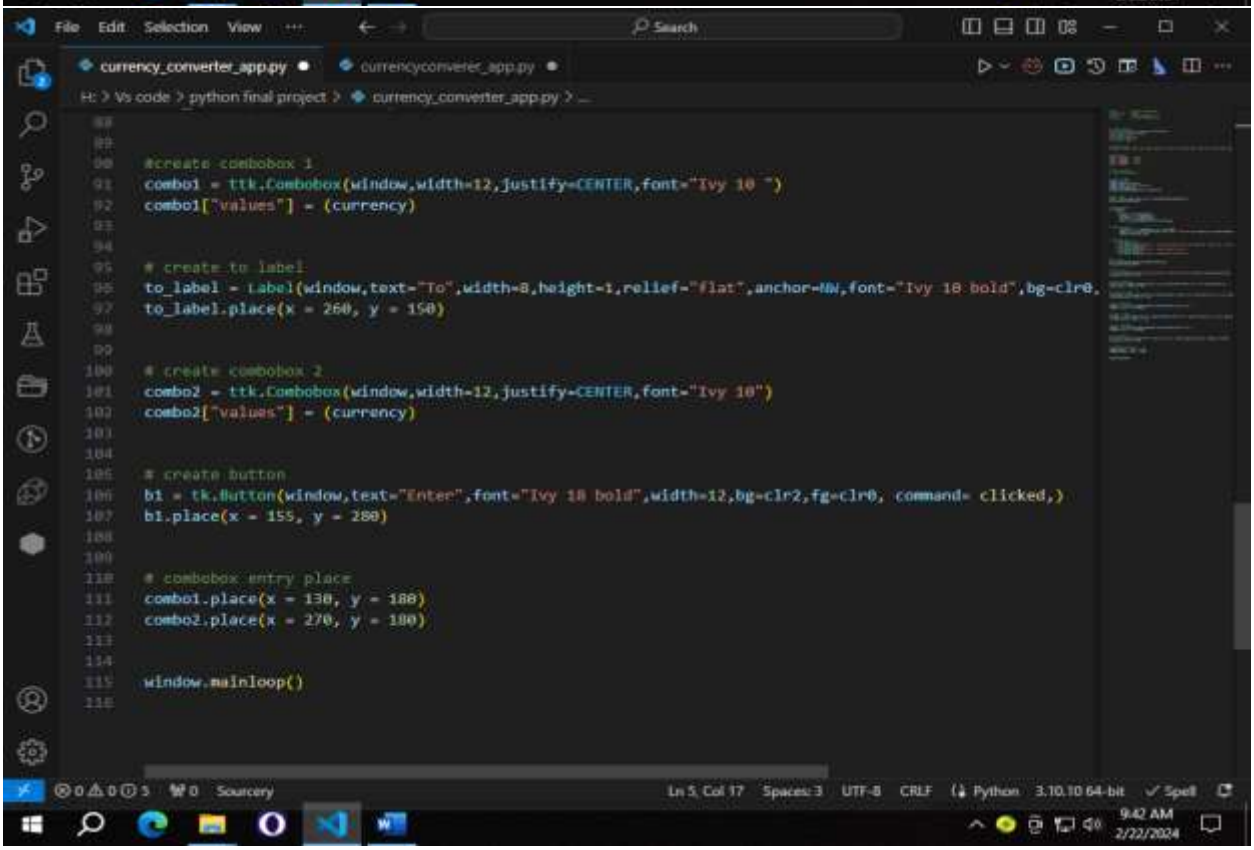
```python
# Name          : Muhammad Tuheed Ahmed
# Roll Number   : 10820
# Email         : tuheedahmed55@gmail.com
# Project       : Currency Converter App



#  import library
from currency_converter import CurrencyConverter
from tkinter import messagebox
import tkinter as tk
from tkinter import ttk
from tkinter import *


# currency list
currency = ["USD","EUR","CAD","INR","GBP","JPY","BRL","CHF","BGN","NZD","AUD","CNY","CZK","DKK","HKD",


# import color
clr0 = "#FFFFFF"    #White
clr1 = "#333333"    #Black
clr2 = "#1E90FF"    #Blue
clr3 = "#E85051"    #red


# define variable
c = CurrencyConverter()
```



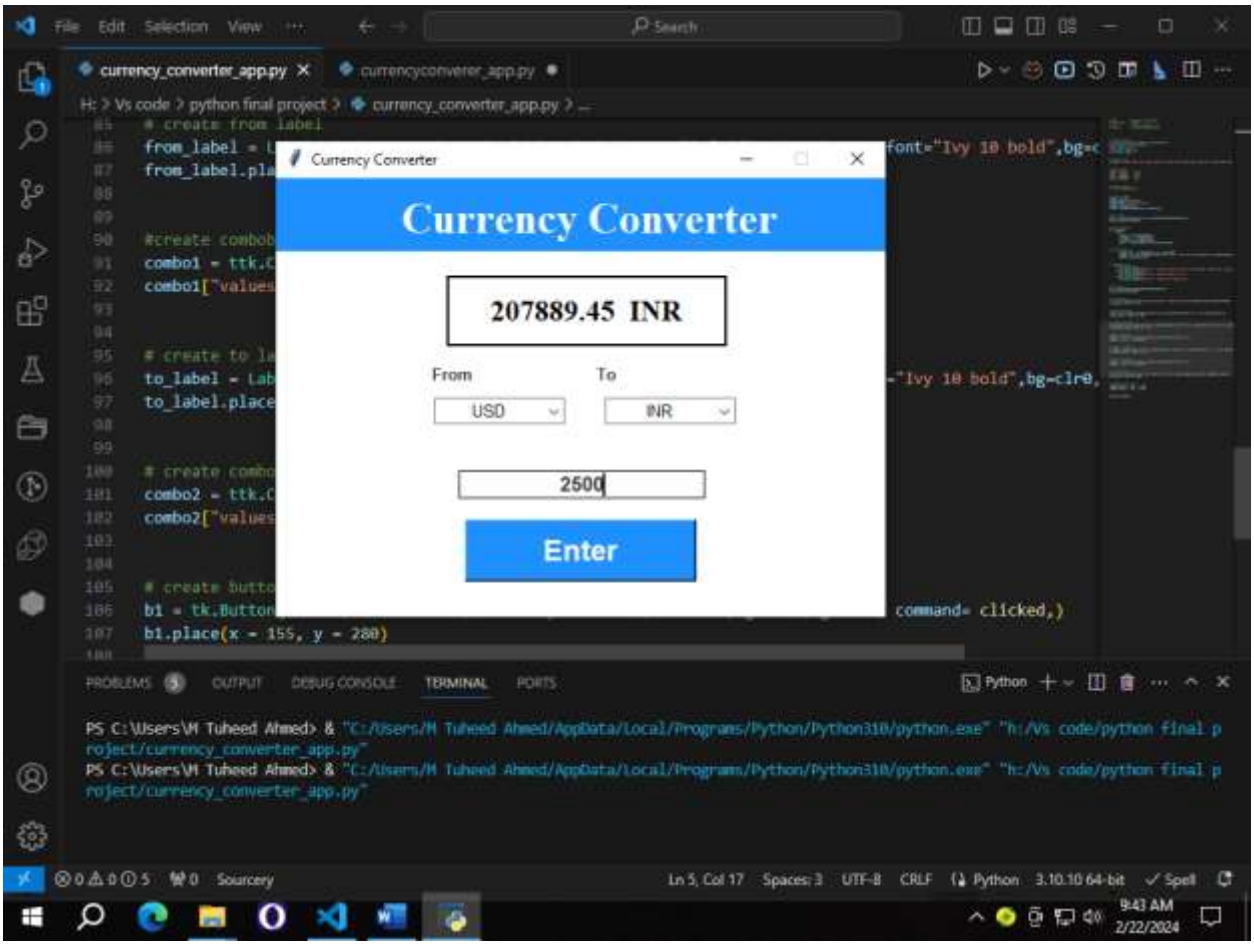
```python
c = CurrencyConverter()


# create  window
window = tk.Tk()
window.geometry("500x300")
window.title("Currency Converter")
window.config(bg=clr0)
window.resizable(height=FALSE, width=FALSE)


# main frame
main = Frame(window,relief="solid",width=300,height=260,bg=clr0)
main.grid(row=1,column=0)


# define function
def clicked():
    try:
        amount = float(value.get())
        currency1 = str(combo1.get())
        currency2 = str(combo2.get())
        data = c.convert(amount,currency1,currency2)


# display result
        result_text = f"{round(data , 2)}  {currency2}"
        label5 = tk.Label(main,text=result_text, font = "Times 18 bold",relief="solid",anchor=CENTER,
        label5.place(x=40, y=20)


# display error
```



```
def clicked():

# display error
    except ValueError:
        messagebox.showerror("Error", "invalid currency/currency not supported. Please enter a valid c
    except ZeroDivisionError:
        messagebox.showerror("Error", "Cannot divide by zero.")
    except Exception as e:
        messagebox.showerror("Error", f"Conversion failed: {e}")


# top frame
top = Frame(window,width=500,height=60,bg=clr2)
top.grid(row=0,column=0)


# create title
l1 = tk.Label(window,text="Currency Converter", font="Times 26 bold",bg=clr2,fg=clr0,anchor=CENTER)
l1.place(x = 100, y = 10,)


# create entry box
value = Entry(window,width=22,relief="solid",justify=CENTER,font="Ivy 12 bold",bg=clr0,fg=clr1,)
value.place(x = 150, y = 240)


# create from label
from_label = Label(window,text="From",width=8,height=1,relief="flat",anchor=NW,font="Ivy 10 bold",bg=c
from_label.place(x = 125, y = 150)


#create combobox 1
```



```
#create combobox 1
combo1 = ttk.Combobox(window,width=12,justify=CENTER,font="Ivy 10 ")
combo1["values"] = (currency)


# create to label
to_label = Label(window,text="To",width=8,height=1,relief="flat",anchor=NW,font="Ivy 10 bold",bg=clr0,
to_label.place(x = 260, y = 150)


# create combobox 2
combo2 = ttk.Combobox(window,width=12,justify=CENTER,font="Ivy 10")
combo2["values"] = (currency)


# create button
b1 = tk.Button(window,text="Enter",font="Ivy 10 bold",width=12,bg=clr2,fg=clr0, command= clicked,)
b1.place(x = 155, y = 280)


# combobox entry place
combo1.place(x = 130, y = 180)
combo2.place(x = 270, y = 180)


window.mainloop()
```


Currency Converter
Currency Converter
207889.45 INR
From
To
USD
INR
2500
Enter
currency_converter_app.py
currencyconverer_app.py
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\M Tuheed Ahmed> & "C:/Users/M Tuheed Ahmed/AppData/Local/Programs/Python/Python310/python.exe" "h:/Vs code/python final project/currency_converter_app.py"
PS C:\Users\M Tuheed Ahmed> & "C:/Users/M Tuheed Ahmed/AppData/Local/Programs/Python/Python310/python.exe" "h:/Vs code/python final project/currency_converter_app.py"
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Python
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