Python Project Overview

Name : Muhammad Tuheed Ahmed

Roll Number : 36820

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Project : Currency Converter App

Project overview,

The Currency Converter App is a web-based application designed to facilitate the conversion of various currencies in real-time. The app fetches up-to-date 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 latest exchange rates for different currencies.
2. **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.
3. **Dynamic Conversion:**
    - Upon user input, the app dynamically calculates the converted amount based on the selected currencies and the fetched exchange rates.
4. **Result Display:**
    - The converted amount is displayed to the user, providing a clear and concise output.

Usage:

1. Users access the app.
2. Input the amount to convert.
3. Select the source and target currencies.

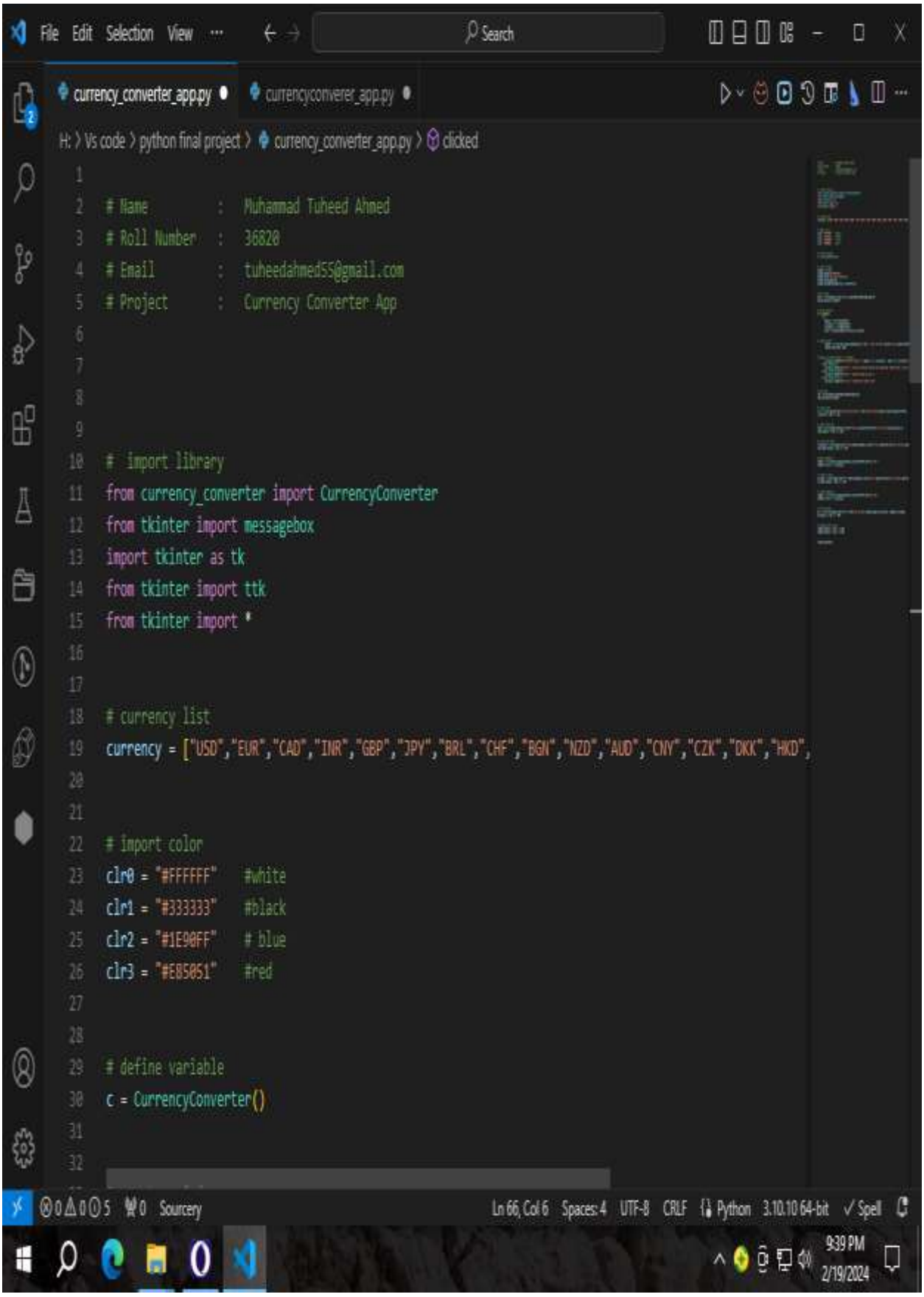
4. Click the "Convert" button.
5. The converted amount is displayed on the page.

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)

GitHub Link:

https://github.com/tuheed55/Bano_Qabil_Final_Project


File Edit Selection View ···
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currency_converter_app.py
currencyconverer_app.py
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# Name : Muhammad Tuheed Ahmed
# Roll Number : 36820
# 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()
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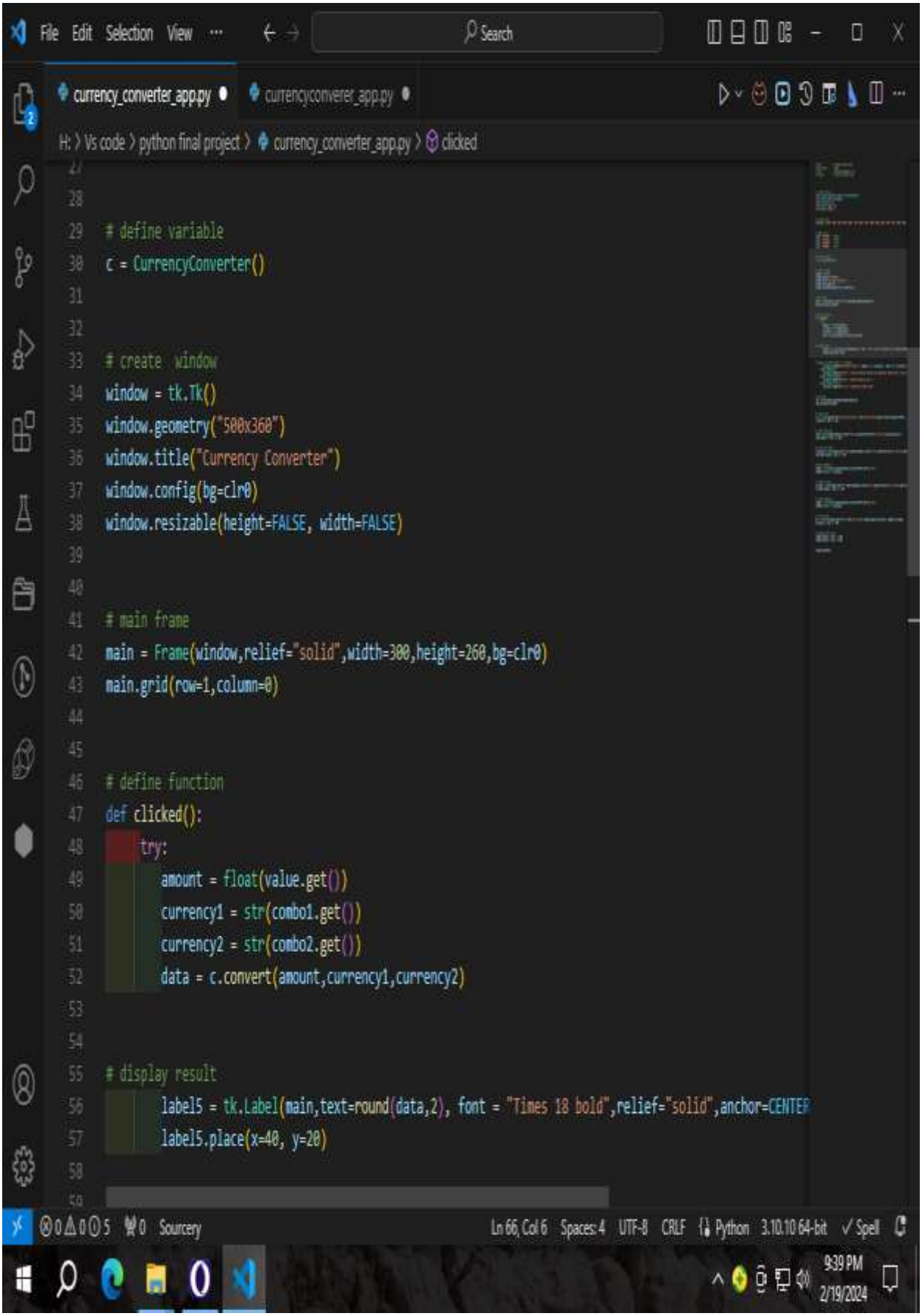
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# define variable
c = CurrencyConverter()
# create window
window = tk.Tk()
window.geometry("500x360")
window.title("Currency Converter")
window.config(bg=clr0)
window.resizable(height=FALSE, width=FALSE)
# main frame
main = Frame(window,relief="solid",width=300,height=260,bg=clr0)
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
label5 = tk.Label(main,text=round(data,2), font = "Times 18 bold",relief="solid",anchor=CENTER
label5.place(x=40, y=20)
Sourcery
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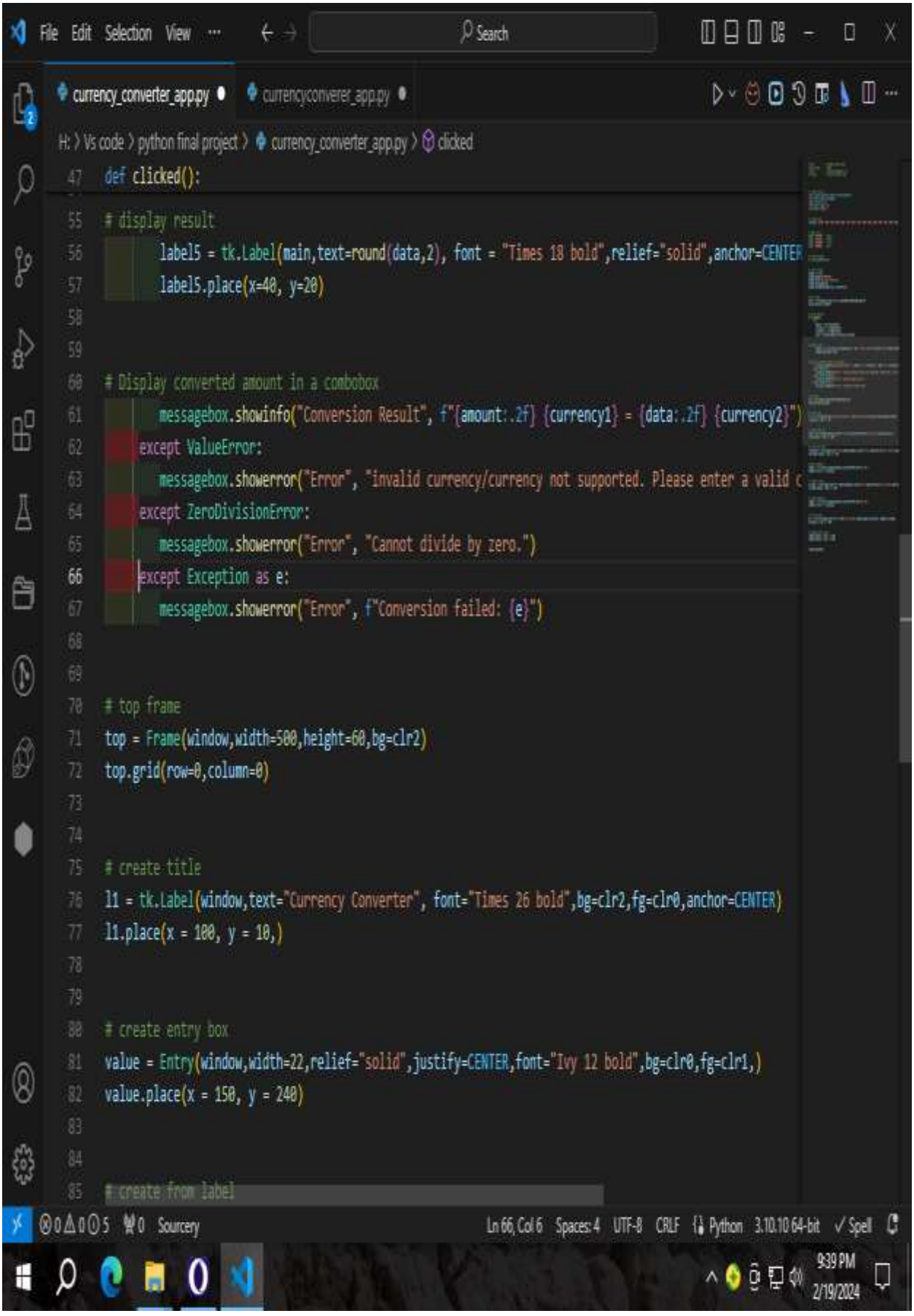
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label5.place(x=40, y=20)
# Display converted amount in a combobox
messagebox.showinfo("Conversion Result", f"{amount:.2f} {currency1} = {data:.2f} {currency2}")
except ValueError:
messagebox.showerror("Error", "invalid currency/currency not supported. 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
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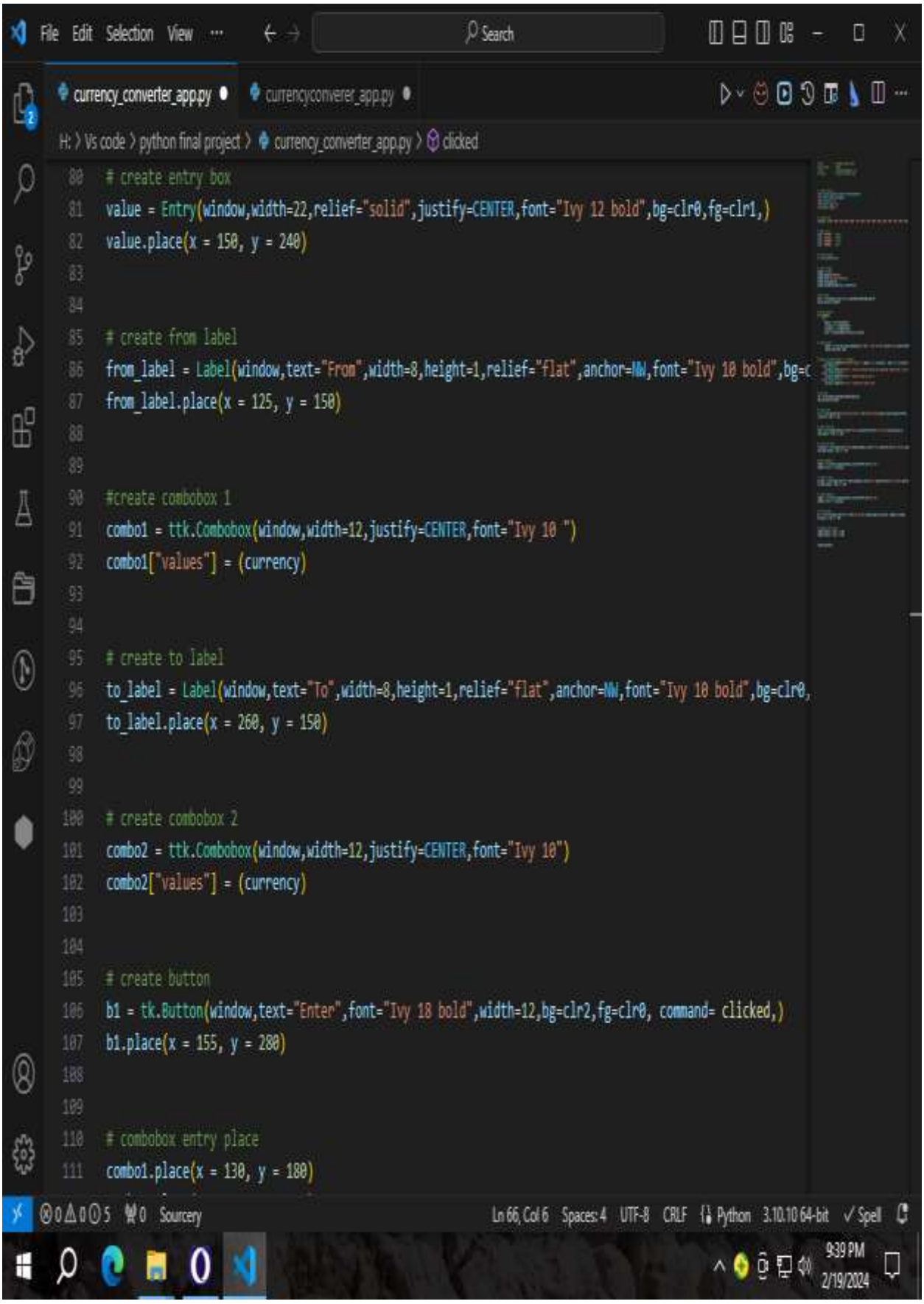
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value.place(x = 150, y = 240)
# create from label
from_label = Label(window,text="From",width=8,height=1,relief="flat",anchor=NW,font="Ivy 10 bold",bg=
from_label.place(x = 125, y = 150)
#create combobox 1
combo1 = ttk.Combobox(window,width=12,justify=CENTER,font="Ivy 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 18 bold",width=12,bg=clr2,fg=clr0, command= clicked,)
b1.place(x = 155, y = 280)
# combobox entry place
combo1.place(x = 130, y = 180)
Sourcery
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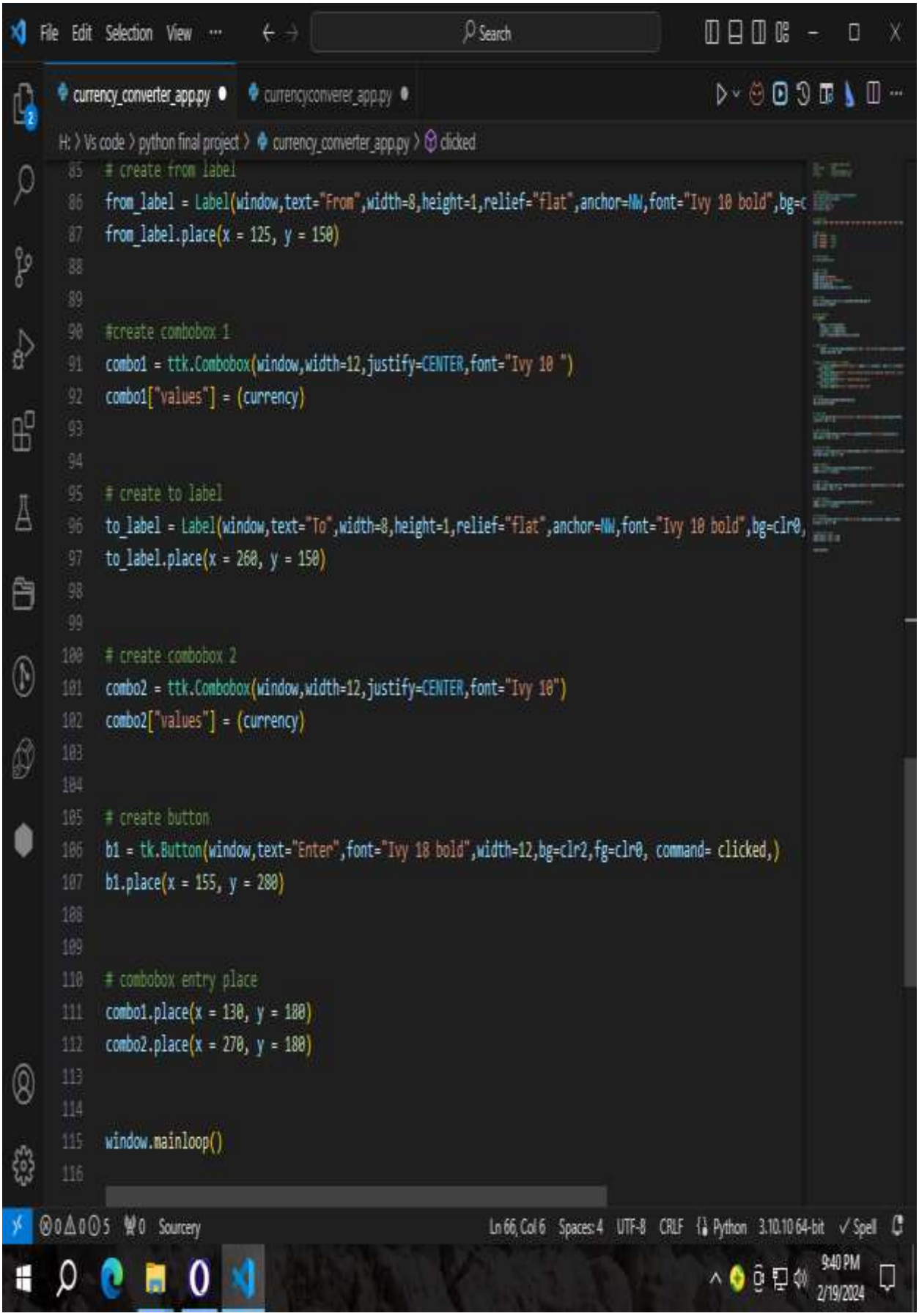
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b1.place(x = 155, y = 280)
# combobox entry place
combo1.place(x = 130, y = 180)
combo2.place(x = 270, y = 180)
window.mainloop()
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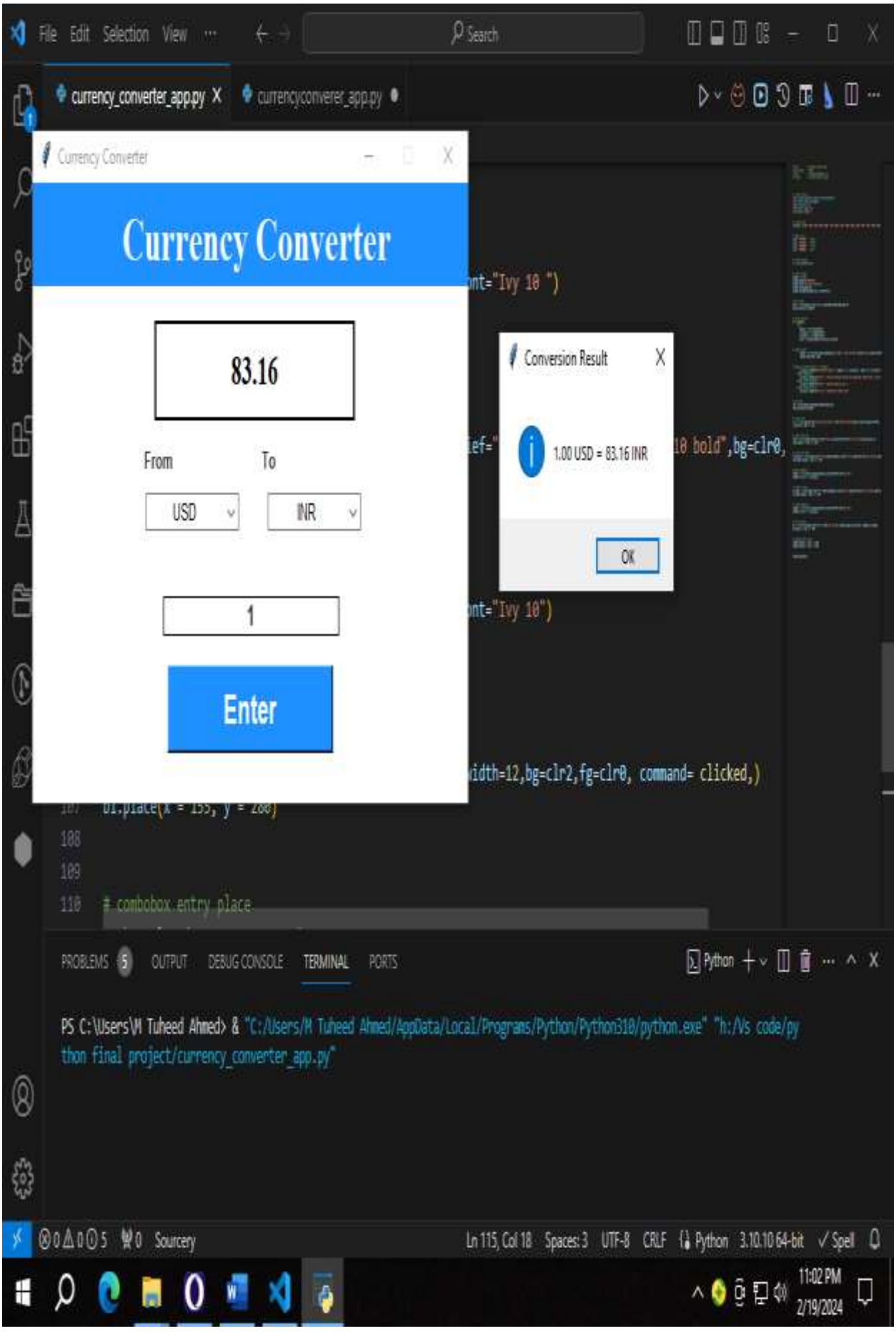
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Currency Converter
Currency Converter
83.16
From
To
USD
INR
1
Enter
Conversion Result
1.00 USD = 83.16 INR
OK
PROBLEMS 5
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\M Tuheed Ahmed> & "C:/Users/M Tuheed Ahmed/AppData/Local/Programs/Python/Python310/python.exe" "h:/Vs code/python final project/currency_converter_app.py"
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Python 3.10.10 64-bit
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