

MINI PROJECT

On Currency

Converter

SUBJECT- Programming Python

**Submitted for partial fulfillment of requirement for
Diploma in computer technology**



Submitted by	Roll no
Mrityunjay Prasad Singh	64
Harsh Chincholkar	77
Pranav Nathe	97
Yash Tiwari	104

Under the Guidance of

Mrs. R. D. POTE

Department of computer Technology

Priyadarshini Polytechnic, Nagpur-16

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† Name of Student :

Mrityunjay Prasad Singh

Harsh Chincholkar

Pranav Nathe

Yash Tiwari

INTRODUCTION:

Currency Converter is a module used to convert one currency into another in order to check its corresponding value using the European Central Bank Data.

Prerequisites:

The currency converter project in python requires you to have basic knowledge of python programming and the pygame library.

- Currency Convert Rate

To add a currency exchange table in the program copy all the rates from that URL and paste them into a separate .txt file.

Steps to Build the Python Project on Currency Converter:

1. Real-time Exchange rates
2. Add Currency Convert Rate's in program
3. Create Currency Dictionary
4. Main Function

1. Real-time Exchange rates:

To get real-time exchange rates, we will use: <https://www.x-rates.com/table/?from=INR&amount=1>

```
{"base": "USD", "date": "2020-07-24", "time_last_updated": 1595549050, "rates":  
{"USD": 1, "AED": 3.671982, "ARS": 71.740672, "AUD": 1.403963, "BGN": 1.689597, "BRL": 5.138815, "BSD": 1,  
"CAD": 1.339464, "CHF": 0.927236, "CLP": 768.47066, "CNY": 7.006136, "COP": 3662.190476, "CZK": 22.75075  
3, "DKK": 6.430665, "DOP": 58.350531, "EGP": 15.982128, "EUR": 0.863249, "FJD": 2.137703, "GBP": 0.786491  
,"GTQ": 7.692138, "HKD": 7.751282, "HRK": 6.498144, "HUF": 300.249864, "IDR": 14747.013107, "ILS": 3.418  
623, "INR": 74.800282, "ISK": 136.328616, "JPY": 107.073736, "KRW": 1200.159277, "KZT": 413.473118, "MVR  
": 15.39, "MXN": 22.413409, "MYR": 4.255183, "NOK": 9.171795, "NZD": 1.502788, "PAB": 1, "PEN": 3.512472, "  
PHP": 49.405187, "PKR": 166.824295, "PLN": 3.814779, "PYG": 6991.454545, "RON": 4.17705, "RUB": 71.21313  
4, "SAR": 3.750135, "SEK": 8.863017, "SGD": 1.385268, "THB": 31.675416, "TRY": 6.842632, "TWD": 29.434189  
,"UAH": 27.801218, "UYU": 42.749305, "ZAR": 16.578909}}
```

Here, we can see the data, with the following details.

2. Add Currency Convert Rate's in program:

Now we will write a code to add Currency Convert Rate to our program So that we can use it in our program, for the real-time exchange rate and convert the currency.

- Let's add the rate.

```
with open('E:\Python\CurrencyConvert\CurrencyData.txt') as f:  
    lines = f.readlines()
```

The text file is add to the program and it will read all the currency.

3. Let's Create a Currency Dictionary :

```
currencyDict = {}  
for line in lines:  
    parsed = line.split("\t")  
    currencyDict[parsed[0]] = parsed[1]
```

OUTPUT:

Argentine Peso
Australian Dollar
Bahraini Dinar
Botswana Pula
Brazilian Real
British Pound
Bruneian Dollar
Bulgarian Lev
Canadian Dollar
Chilean Peso
Chinese Yuan Renminbi
Colombian Peso
Croatian Kuna
Czech Koruna
Danish Krone
Emirati Dirham
Euro
Hong Kong Dollar
Hungarian Forint
Icelandic Krona
Indonesian Rupiah

Iranian Rial
Israeli Shekel
Japanese Yen
Kazakhstani Tenge
Kuwaiti Dinar
Libyan Dinar
Malaysian Ringgit
Mauritian Rupee
Mexican Peso
Nepalese Rupee
New Zealand Dollar
Norwegian Krone
Omani Rial
Pakistani Rupee
Philippine Peso
Polish Zloty
Qatari Riyal
Romanian New Leu
Russian Ruble
Saudi Arabian Riyal
Singapore Dollar
South African Rand

South Korean Won
Sri Lankan Rupee
Swedish Krona
Swiss Franc
Taiwan New Dollar
Thai Baht
Trinidadian Dollar
Turkish Lira
US Dollar
Venezuelan Bolivar

It has all currency from which we can convert.

4. Main Function:

```
amount = int(input("Enter Amount:\n"))  
print("Enter the name of currency you want to convert this amount to?\nAvailable Options:\n")  
[print(item) for item in currencyDict.keys()]  
currency = input("Please enter one of these value:\n")  
print(f"{amount} INR is equal to {amount * float(currencyDict[currency])} {currency}")
```

OUTPUT:

```

PS C:\Users\Verity> python "e:\Python\CurrencyConvert\currencycovert.py"
Enter Amount:
100
Enter the name of currency you want to convert this amount to?
Available Options:
Argentine Peso
Australian Dollar
Bahraini Dinar
Botswana Pula
Brazilian Real
British Pound
Bruneian Dollar
Bulgarian Lev
Canadian Dollar
Chilean Peso
Chinese Yuan Renminbi
Colombian Peso
Croatian Kuna
Czech Koruna
Danish Krone
Emirati Dirham
Euro
Hong Kong Dollar
Hungarian Forint
Icelandic Krona
Indonesian Rupiah
Iranian Rial
Israeli Shekel
Japanese Yen
Kazakhstani Tenge
Kuwaiti Dinar
Libyan Dinar
Malaysian Ringgit
Mauritian Rupee
Mexican Peso
Nepalese Rupee

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```

New Zealand Dollar
Norwegian Krone
Omani Rial
Pakistani Rupee
Philippine Peso
Polish Zloty
Qatari Riyal
Romanian New Leu
Russian Ruble
Saudi Arabian Riyal
Singapore Dollar
South African Rand
South Korean Won
Sri Lankan Rupee
Swedish Krona
Swiss Franc
Taiwan New Dollar
Thai Baht
Trinidadian Dollar
Turkish Lira
US Dollar
Venezuelan Bolivar
Please enter one of these value:
US Dollar
100 INR is equal to 1.3727 US Dollar

```

5. Summary:

This is a program for Converting Currency from one to another, at first we have made a list of all the currency and the current values in a .txt file. After that, we write a small code for adding that txt file to our program then we had made a dictionary of all the currency name that is listed in txt file and then we have written some code for converting one currency to another.

References-

Currency rates - <https://www.x-rates.com/table/?from=INR&amount=1>
