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Faculty of Engineering

Department of Information and Communication Technology

B.Sc. in Internet of Things

Course Title: Object Oriented Programming Lab

Course Code: ICT 4252

PROJECT REPORT

Project Title: Implement Currency Converter Using Python Programming

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Project Name: Implement Currency Converter Using Python Programming Language

ACKNOWLEDGEMENT

We have taken many efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. We would like to extend our sincere thanks to my teammate. We are highly indebted to Farzana Akter mam for her guidance and constant supervision as well as for providing necessary information regarding the Mini Project titled “CURRENCY CONVERTER”.

ABSTRACT

Different countries use different currencies, and there is daily variation in these currencies relative to one another. Those who transfer money from one country to another (one currency to another) must be updated with the latest currency exchange rates in the market. The Currency Converter is helping to convert money like Indian Rupees to American Dollar or Indian Rupees to Dubai Dirham. And this system is mainly helpful in business, shares, and finance.

INTRODUCTION

Purpose:

An easily accessible online currency converter is very useful to show travelers how their own currencies will fare when exchanged with other foreign currency. Moreover, currency converters help international import and export businesses by helping them determine the selling and buying profits of different products.

Scope:

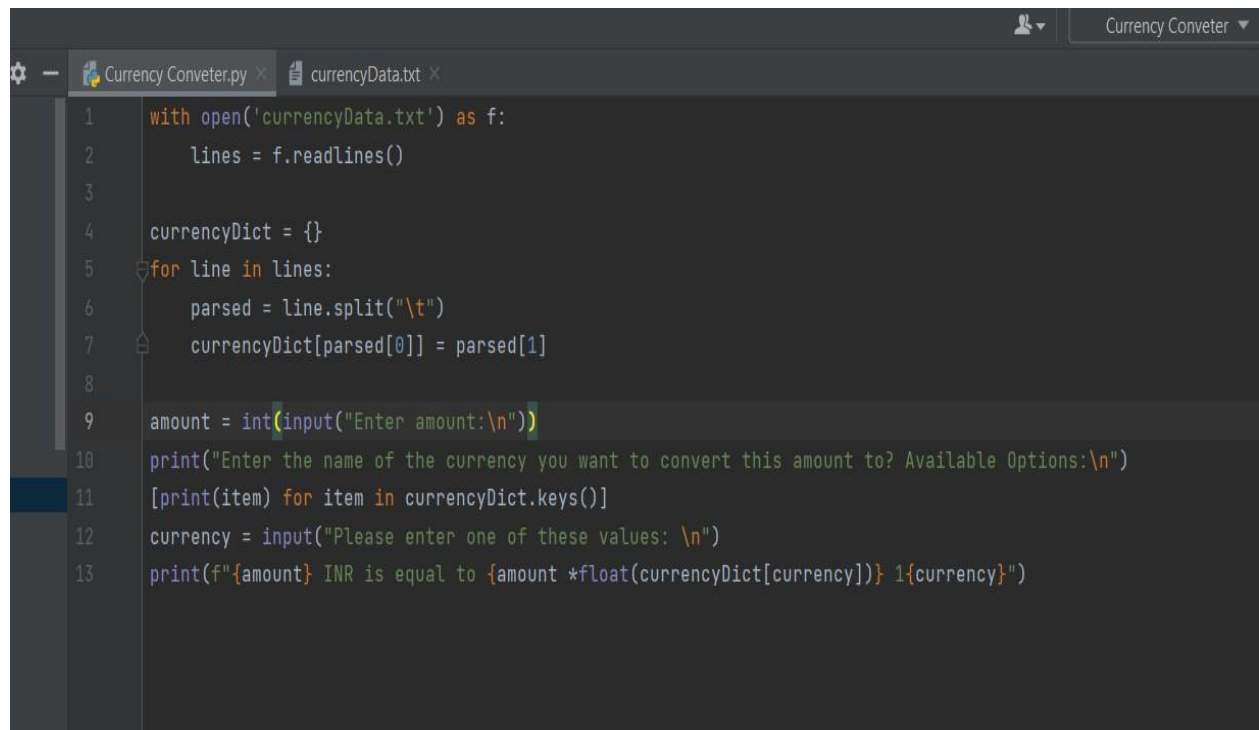
The Currency Converter is helping to convert money like Indian Rupees to American Dollar or Indian Rupees to Dubai Dirham. A currency converter is a calculator or software or a tool that converts the quantity or value of one currency into the relative quantities or values of other. Every software may have some cases of bugs, errors, security-related problems, or system faults. There are many problems or system faults, for example, computer collapse or crashes due to power supply problems will invalidate efforts of the number of students. So, in the future we can develop more secure software by using advanced technologies.

OBJECTIVE

Currency converters aim to maintain real-time information on current market or bank exchange rates, an easily accessible online currency converter is very useful to show travelers how their own currencies will fare when exchanged with other foreign currency. Moreover, currency converters help international import and export businesses by helping them determine the selling and buying profits of different products.

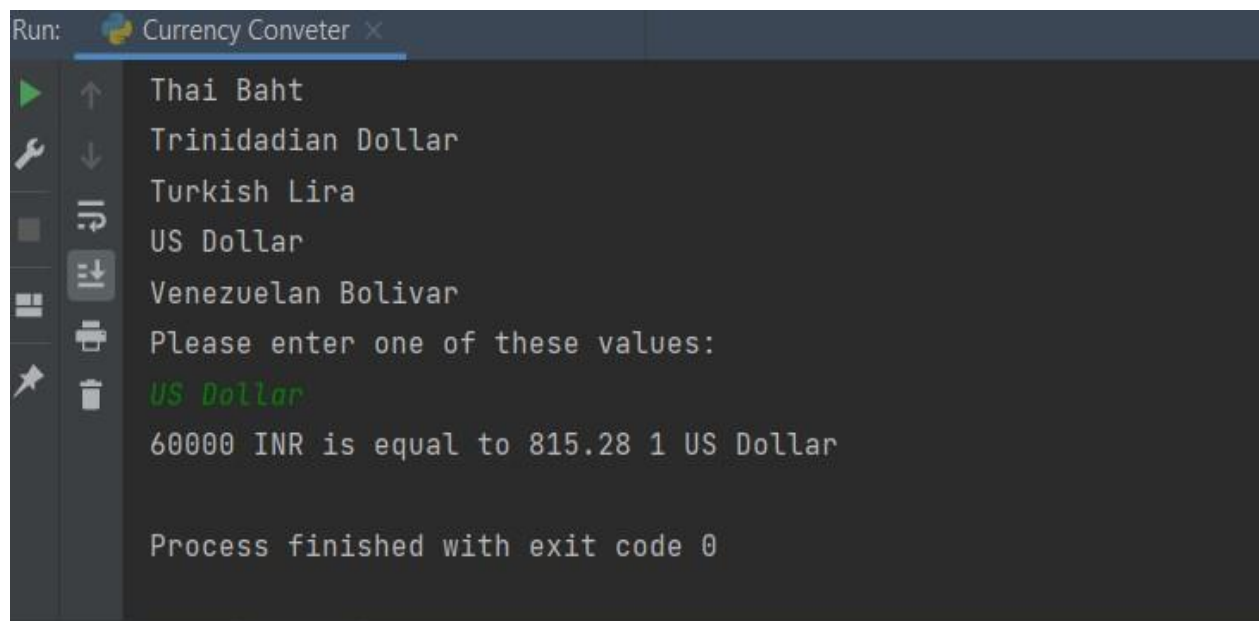
Input /Output interface:

Input:



```
1 with open('currencyData.txt') as f:
2     lines = f.readlines()
3
4     currencyDict = {}
5     for line in lines:
6         parsed = line.split("\t")
7         currencyDict[parsed[0]] = parsed[1]
8
9     amount = int(input("Enter amount:\n"))
10    print("Enter the name of the currency you want to convert this amount to? Available Options:\n")
11    [print(item) for item in currencyDict.keys()]
12    currency = input("Please enter one of these values: \n")
13    print(f"{amount} INR is equal to {amount * float(currencyDict[currency])} 1{currency}")
```

Output:



```
Run: Currency Conveter x
> Thai Baht
> Trinidadian Dollar
> Turkish Lira
> US Dollar
> Venezuelan Bolivar
Please enter one of these values:
US Dollar
60000 INR is equal to 815.28 1 US Dollar

Process finished with exit code 0
```

Code Implementation

Implementation Environment

Challenges identified for the successful design and implementation of this project are dominated by: Complexity, reliability/availability, transparent data access. The project was a result of a Group consensus. The team was having two members. A Session is maintained throughout the system when a particular user enters the system. The Session is regularly checked whenever it is required. Proper validation is placed as and when it is required.

Limitations and Future Enhancement

LIMITATIONS: Though we tried our best in developing this system limitations are mere parts of any System so are of our system. Inconsistency in data entry and generating errors System is fully dependent on skilled individuals time consuming and costly to produce reports Entry of false information Lack of security duplication of data entry.

FUTURE SCOPE OF THE PROJECT: Our project will be able to implement in the future after making some changes and modifications as we make our project at a very low level. So, the modifications that can be done in our project are: In the future one change can be done by adding the fingerprints of the persons of which the address is entered. And one more major change which can be done in this project is to add the snaps of the person of which the address is entered. We can also add or subtract details of the individual.

Conclusion

The Currency Converter is important because the exchange rate, the price of one currency in terms of another, helps to determine a nation's economic health and hence the well-being of all the people residing in it. It also helps economic growth in different countries in order to forecast the direction of exchange rates.

References:

<https://codewithharry.com/videos/python-practice-programs-in-hindi-3>

<https://code-projects.org/currency-converter-in-python>

<https://itsourcecode.com/free-projects/python-projects/currency-converter-inpython->

Appendix:

Source Code:

with open('currencyData.txt') as f:

 lines = f.readlines()

```
currencyDict = {} for
```

```
line in lines:
```

```
    parsed = line.split("\t")
```

```
currencyDict[parsed[0]] = parsed[1]
```

```
amount = int(input("Enter amount:\n")) print("Enter the name of the  
currency you want to convert this amount to? Available Options:\n")
```

```
[print(item) for item in currencyDict.keys()] currency = input("Please  
enter one of these values: \n") print(f"{amount} INR is equal to {amount  
*float(currencyDict[currency])} {currency}")
```

currencyData.txt

Argentine Peso	1.115338	0.896589
Australian Dollar	0.017966	55.660476
Bahraini Dinar	0.005109	195.726140
Botswana Pula	0.149039	6.709659
Brazilian Real	0.068308	14.639623
British Pound	0.010200	98.042160
Bruneian Dollar	0.018113	55.210090
Bulgarian Lev	0.021856	45.754931
Canadian Dollar	0.017286	57.849228
Chilean Peso	9.984351	0.100157
Chinese Yuan Renminbi	0.088853	11.254577
Colombian Peso	46.472740	0.021518
Croatian Kuna	0.084281	11.865041
Czech Koruna	0.294208	3.398959
Danish Krone	0.083171	12.023476

Emirati Dirham	0.049903	20.038946
Euro	0.011175	89.488866
Hong Kong Dollar	0.105329	9.494061
Hungarian Forint	3.954032	0.252906
Icelandic Krona	1.728425	0.578561
Indonesian Rupiah	191.655288	0.005218
Iranian Rial	568.665341	0.001759
Israeli Shekel	0.044178	22.635679
Japanese Yen	1.413723	0.707352
Kazakhstani Tenge	5.696617	0.175543
Kuwaiti Dinar	0.004145	241.232117
Libyan Dinar	0.018288	54.679837
Malaysian Ringgit	0.054995	18.183521
Mauritian Rupee	0.537754	1.859587
Mexican Peso	0.271623	3.681572
Nepalese Rupee	1.607500	0.622084
New Zealand Dollar	0.019132	52.267460
Norwegian Krone	0.118981	8.404735
Omani Rial	0.005225	191.399294
Pakistani Rupee	2.173161	0.460159
Philippine Peso	0.653161	1.531016
Polish Zloty	0.049474	20.212818
Qatari Riyal	0.049461	20.217865
Romanian New Leu	0.054403	18.381264
Russian Ruble	0.993034	1.007015
Saudi Arabian Riyal	0.050956	19.624808

Singapore Dollar	0.018113	55.210090
South African Rand	0.204165	4.897995
South Korean Won	14.810964	0.067518
Sri Lankan Rupee	2.529038	0.395407
Swedish Krona	0.114455	8.737087
Swiss Franc	0.012034	83.097635
Taiwan New Dollar	0.382560	2.613972
Thai Baht	0.407954	2.451255
Trinidadian Dollar	0.092336	10.830042
Turkish Lira	0.107358	9.314632
US Dollar	0.013588	73.593029
Venezuelan Bolivar	0.135713	7.368513