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How To Create A Currency Converter In Python? | Python Programming Practice (Hindi)

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How To Create A Currency Converter In Python? | Python Programming Practice (Hindi)

In this tutorial, we are going to create a python currency converter application. First, go to this website and copy the exchange rates of different currencies. After copying the data, past it inside a text file and fire up your favorite IDE.

Now let's create our program by making a main.py file. To make this application work, we need to create a text file, and then we have to get the predefined values in a dictionary so we can use them to convert. Now we have to take input from the user and convert it to the user's desirable currency. For better understanding, you can watch the video.

Code Explanation:

As mentioned above, we are storing the exchange rates of different currencies in a text file. After this, we're reading the data from the text file. Then, we're iterating over the text file's data, which is stored in the lines variable using a for loop and parsing the data to a dictionary variable named currencyDict.

We're done with the data fetching part. Now, we take the input of the amount that the user wants to convert. Once the user inputs some amount, the list of all different currencies is displayed to the user. In the end, we convert the amount entered by the user to the selected currency for exchange.

Source Code:

main.py as described in the video:

```python
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 as described in the video:

```
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
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