Report for the Currency Converter

taken as a project work for the course

Python Programming (INT 213)

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Program: - B.Tech (Computer Science and Engineering)

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School of Computer Science and Engineering

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Introduction: -

This Project is made for Fulfillment of course Python Programming. I have made a Basic Currency Converter using Pycharm IDE as my individual Project. In this project code I stored the exchange rates of different currencies in a text file naming it currency converter.txt. After this, the data from the text file is being using the **module readlines()** .Then iterating over the text file's data, which is stored in the lines variable using **for loop** and **parsing** the data to a **dictionary** variable named **currencyDict**. After fetching the data, the input of the amount will be taken that the user wants to convert. Once the user inputs some amount, the **list** of all different currencies will display to the user. Then in the end we can convert the amount enter by the user to the selected for exchange.

Source code: -

```python
with open('currency converter.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}")
```
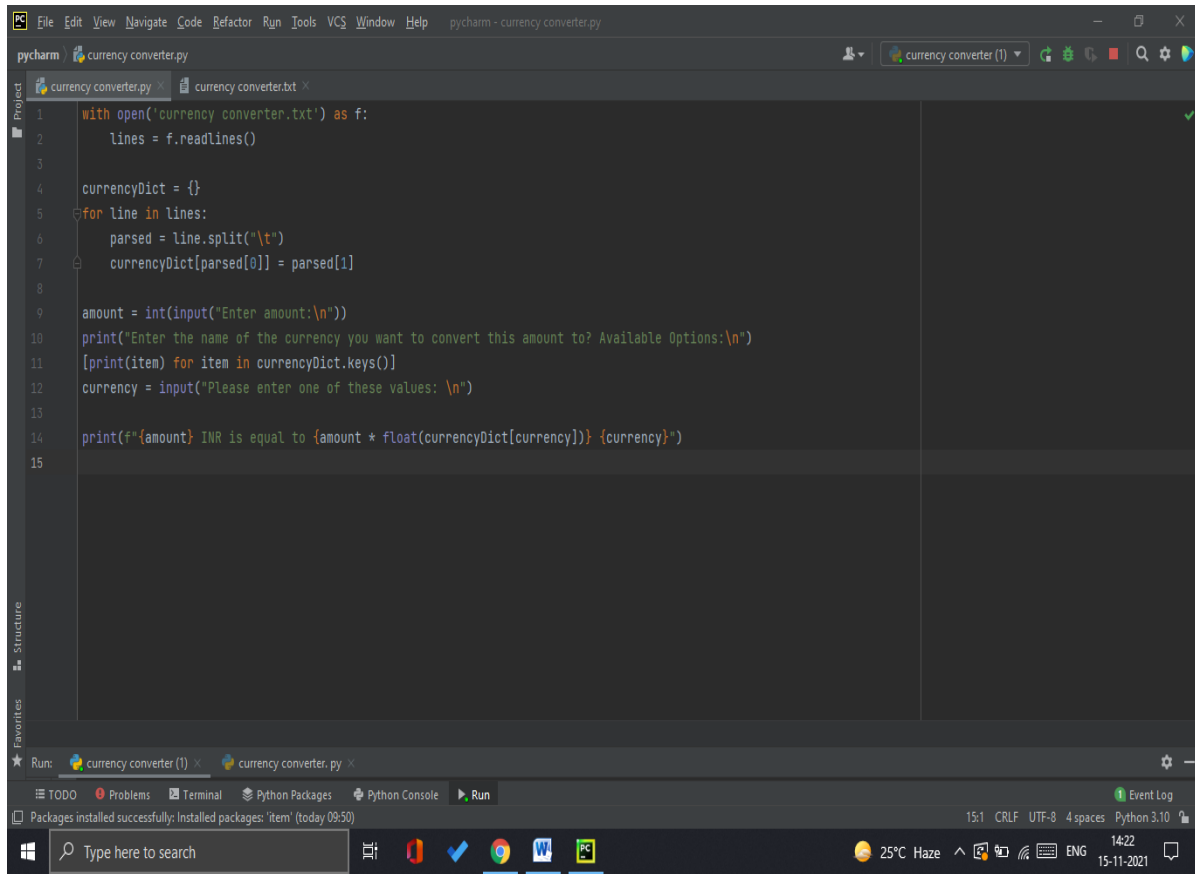
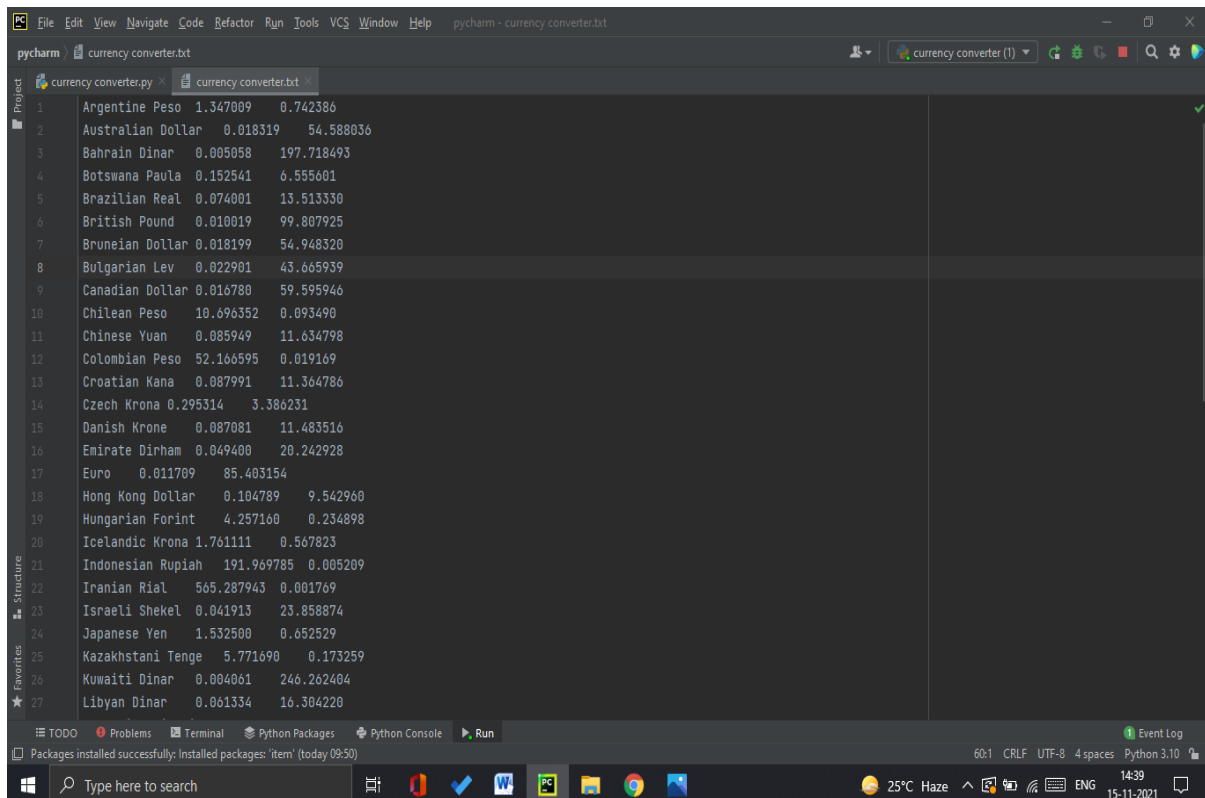**Text file (currency converter.txt) data : -**

```
Argentine Peso  1.347009   0.742386
Australian Dollar  0.018319   54.588036
Bahrain Dinar  0.005058   197.718493
Botswana Paula 0.152541   6.555601
Brazilian Real 0.074001   13.513330
British Pound  0.010019   99.807925
Bruneian Dollar   0.018199   54.948320
Bulgarian Lev  0.022901   43.665939
Canadian Dollar   0.016780   59.595946
Chilean Peso   10.696352  0.093490
Chinese Yuan   0.085949   11.634798
Colombian Peso 52.166595  0.019169
Croatian Kana  0.087991   11.364786
Czech Krona    0.295314   3.386231
Danish Krone   0.087081   11.483516
Emirate Dirham 0.049400   20.242928
Euro   0.011709   85.403154
Hong Kong Dollar   0.104789   9.542960
Hungarian Forint   4.257160   0.234898
Icelandic Krona    1.761111   0.567823
Indonesian Rupiah  191.969785 0.005209
Iranian Rial   565.287943 0.001769
Israeli Shekel 0.041913   23.858874
Japanese Yen   1.532500   0.652529
Kazakhstani Tenge  5.771690   0.173259
Kuwaiti Dinar  0.004061   246.262404
Libyan Dinar   0.061334   16.304220
Malaysian Ringgit  0.055865   17.900200
Mauritian Rupee    0.580132   1.723746
Mexican Peso   0.276627   3.614974
Nepalese Rupee 1.607500   0.622084
New Zealand Dollar 0.019020   52.575558
Norwegian Krone    0.116291   8.599141
Omani Rial 0.005172   193.347603
Pakistani Rupee    2.322374   0.430594
Philippine Peso    0.673988   1.483706
Polish Zloty   0.053993   18.520888
Qatari Riyal   0.048963   20.423669
Romanian New Leu   0.057949   17.256503
Russian Ruble  0.958090   1.043743
Saudi Arabian Riyal    0.050442   19.824574
Singapore Dollar   0.018199   54.948320
South African Rand 0.207575   4.817547
South Korean Won   15.927261  0.062785
Sri Lankan Rupee   2.717072   0.368043
Swedish Krona  0.117007   8.546511
Swiss Franc    0.012352   80.959428
Taiwan New Dollar  0.373830   2.675014
Thai Baht  0.441638   2.264297
Trinidadian Dollar 0.091341   10.948017
Turkish Lira   0.132086   7.570798
US Dollar  0.013451   74.342153
Venezuelan Bolivar 5970.363253    0.000167
```
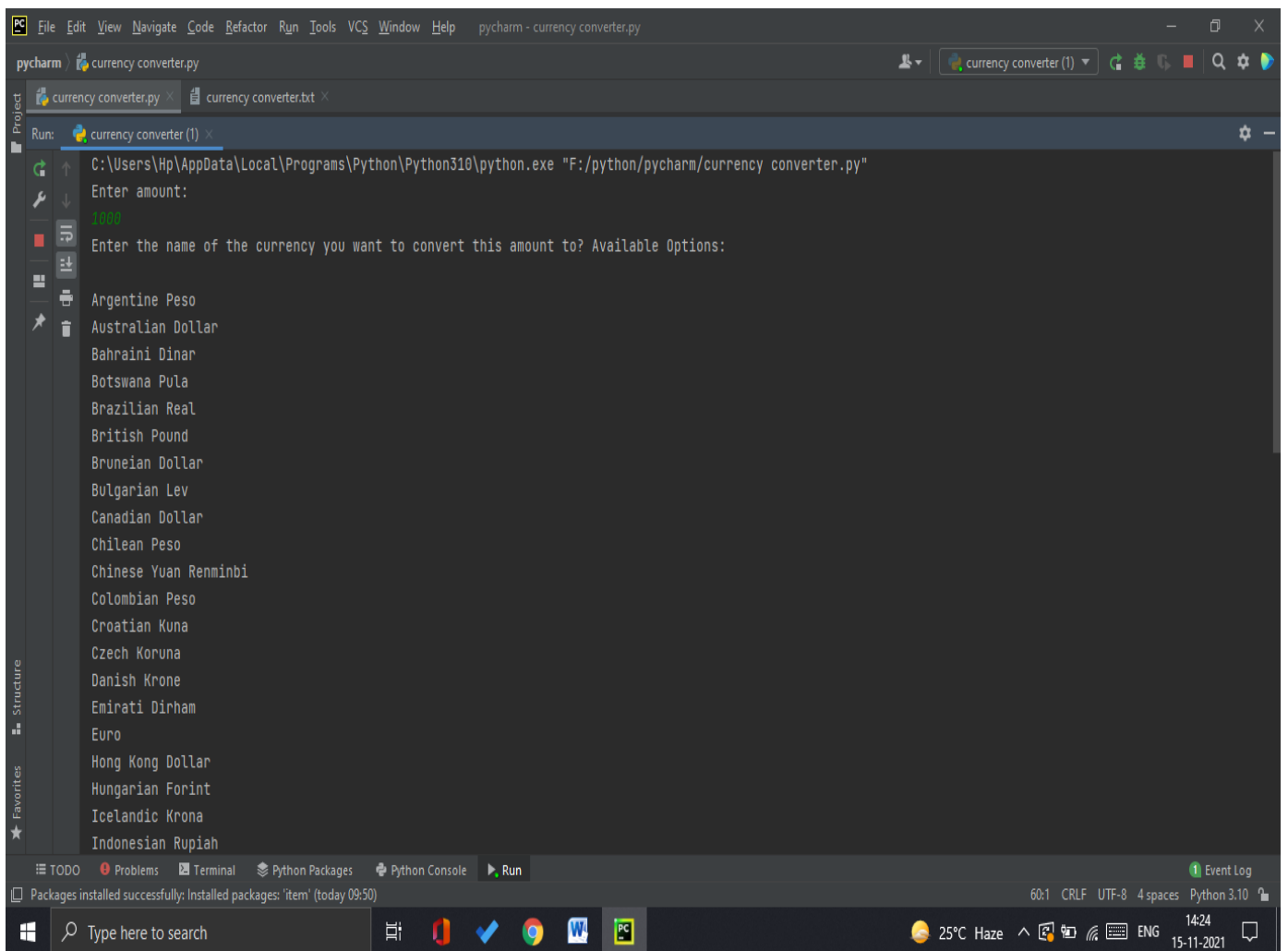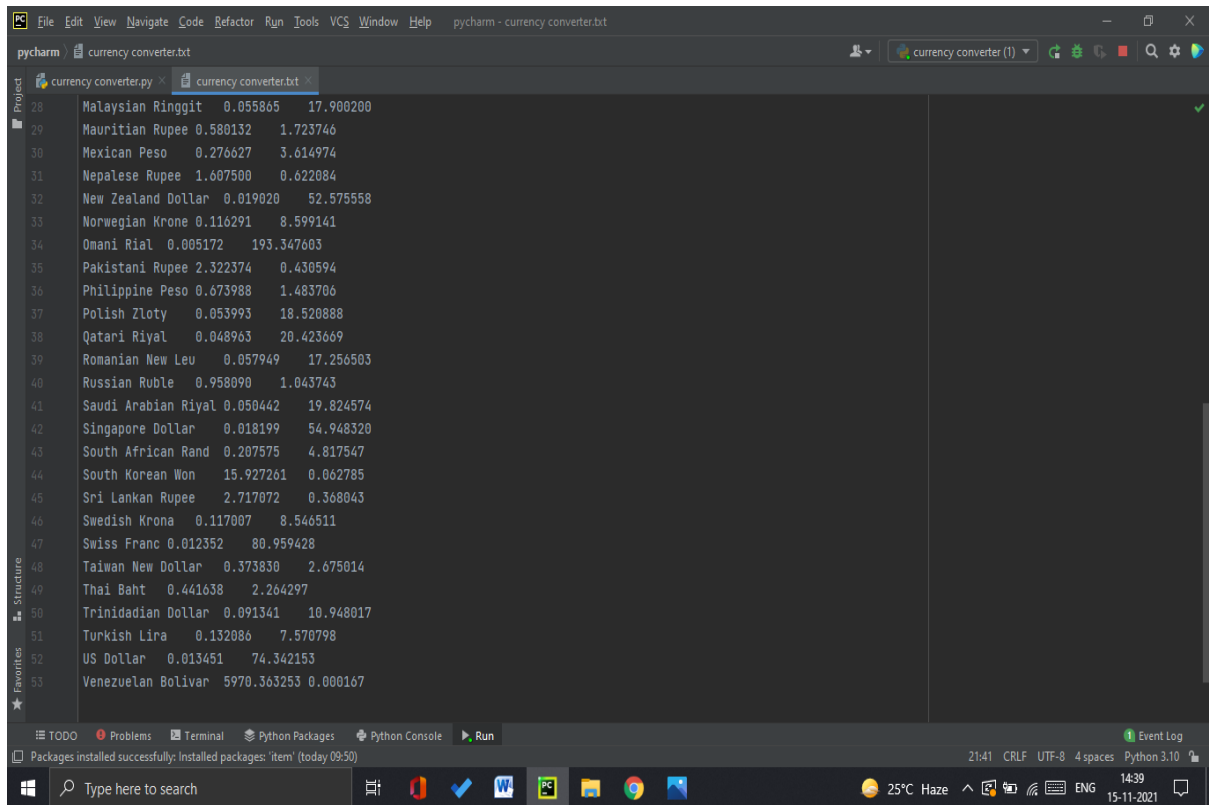
Screenshots of project code, text file and output:-


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[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}")
```
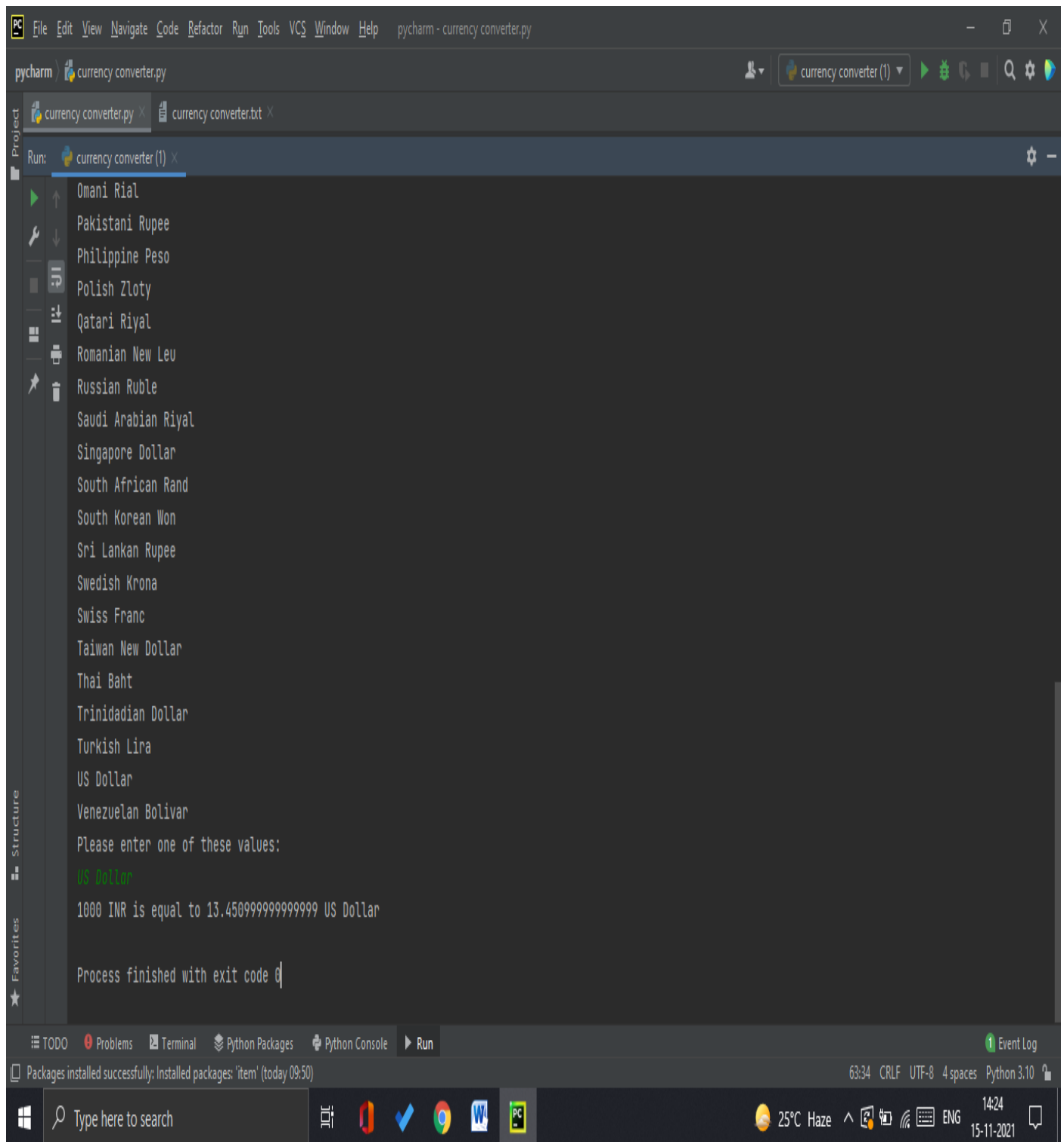


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Israeli Shekel  0.041913    23.858874
Japanese Yen    1.532500    0.652529
Kazakhstani Tenge   5.771690    0.173259
Kuwaiti Dinar   0.004061    246.262404
Libyan Dinar    0.061334    16.304220
```

Screenshot 1 - currency converter.txt:

```
28    Malaysian Ringgit  0.055865    17.900200
29    Mauritian Rupee  0.580132    1.723746
30    Mexican Peso    0.276627    3.614974
31    Nepalese Rupee  1.607500    0.622084
32    New Zealand Dollar  0.019020    52.575558
33    Norwegian Krone 0.116291    8.599141
34    Omani Rial    0.005172    193.347603
35    Pakistani Rupee 2.322374    0.430594
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43    South African Rand  0.207575    4.817547
44    South Korean Won    15.927261   0.062785
45    Sri Lankan Rupee    2.717072    0.368043
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47    Swiss Franc 0.012352    80.959428
48    Taiwan New Dollar   0.373830    2.675014
49    Thai Baht   0.441638    2.264297
50    Trinidadian Dollar  0.091341    10.948017
51    Turkish Lira    0.132086    7.570798
52    US Dollar   0.013451    74.342153
53    Venezuelan Bolivar  5970.363253 0.000167
```

Screenshot 2 - currency converter.py (Run output):

```
C:\Users\Hp\AppData\Local\Programs\Python\Python310\python.exe "F:/python/pycharm/currency converter.py"
Enter amount:
1000
Enter the name of the 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
```

References :-

[reference link](#)

[x rates](#)