CIS 2266: Python for Data Analytics

Midterm project

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The currency converter program

User guide

- 1. The program will keep asking for an input if user enters the country that is not part of the list or if he/she mistypes the name of the country
- 2. After country input, program asks how much money in USD you are willing to send
- 3. Program will display how much you have to pay including service fees, how much recipient gets in a foreign currency and the new balance on your account.
- 4. The program will shutdown if user fails enter a correct amount for a second time

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In [26]: #Display the list of destination countries user chooses from
for key in currencies:
    print(key)
```

Australia
Canada
China
Denmark
Great Britain
Hong Kong
Japan
Mexico
New Zealand
Norway
Singapore
Sweden
Switzeland
Thailand

Choose destination country from the list above and type it as it appears Sweden How much do you want to send?

```
In [28]: #Calculate how much the recipient will recieve in their local currency
def receive_amount(amountTosend):
    serviceFee = int(amountTosend)* 0.05
    totalPayment = int(amountTosend) + serviceFee
    return totalPayment
```

1000

In [32]: #Calculate the new balance on sender's account

def balance function():

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withdrawInput= amountTosend
             new_Balance= totalBalance-maxAmount
             print("And the new balance on your account is: \n","\033[1m"+"${:,.2f}"
In [33]: #Get the name of a foreign currency depending on country input
         name = ''
         def return_currency(name):
             if countryTo == 'Australia'or countryTo =='Canada' or countryTo =='Sing
                 name = names[0]
             elif countryTo == 'China':
                 name = names[2]
             elif countryTo== 'Great Britain':
                 name = names[4]
             elif countryTo == 'Japan':
                 name = names[6]
             elif countryTo == 'Mexico':
                 name = names[7]
             elif countryTo == 'Norway'or countryTo =='Dennmark':
                 name = names[9]
             elif countryTo == 'Sweden':
                 name = names[11]
             elif countryTo =='Switzeland':
                 name = names[12]
             elif countryTo =='Thailand':
                 name = names[13]
             return name
```

```
In [34]: #Formatted final output
    print("Your total payment including service fee is: \n","\033[lm"+"${:,.2f}
    recipient_amount = round(float(currencies[countryTo])*float(amountTosend),2
    print("Your recipient will recieve:\n","\033[lm"+return_currency(countryTo)

    balance_function()

Your total payment including service fee is:
    $1,050.00
Your recipient will recieve:
    Swedish Krona 10,190.00
And the new balance on your account is:
```

Program ends

\$950.00

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In [ ]:
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