KULLIYYAH OF INFORMATION & COMMUNICATION TECHNOLOGY

CSC 1100 ELEMENTS OF PROGRAMMING

SEMESTER 2, 2018 / 2019

Section 4

LECTURER

Dr. Suriani Bt. Sulaiman

MONEY EXCHANGER

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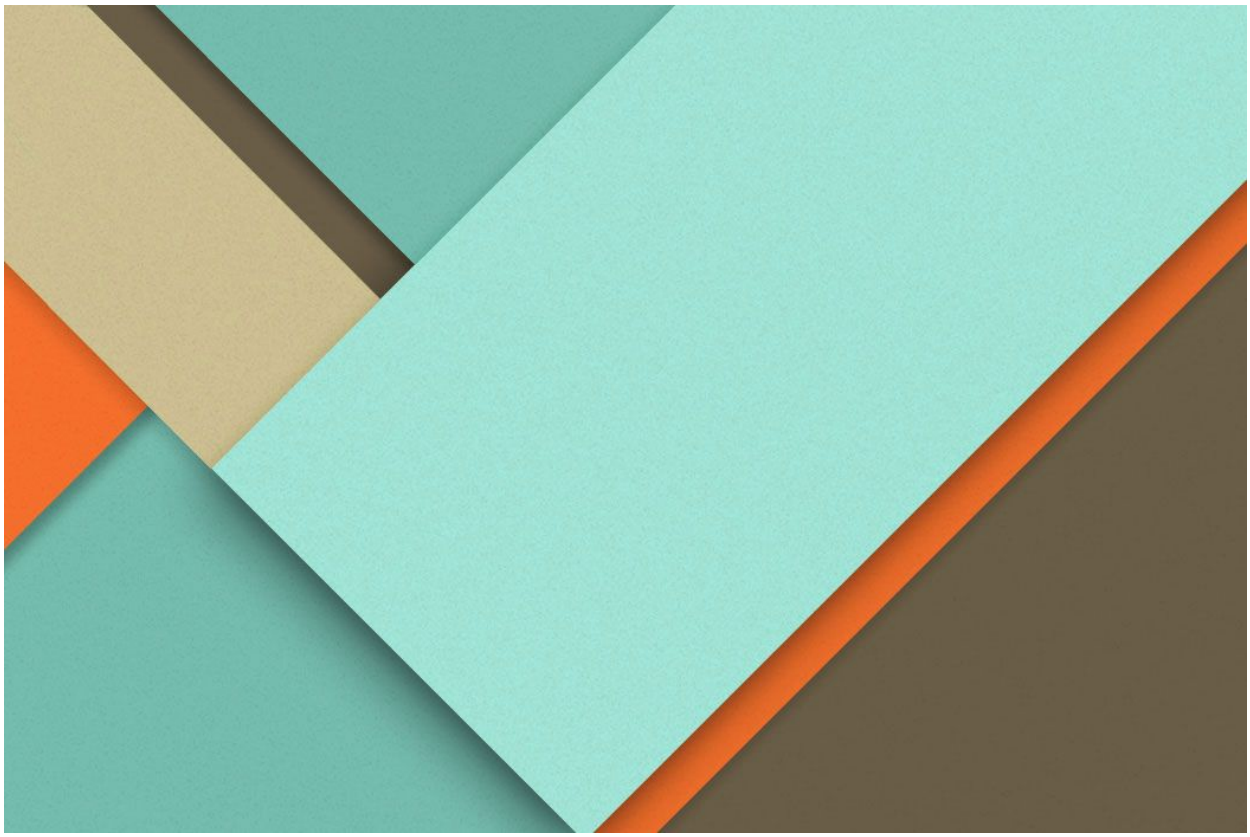


Money Exchanger

12.05.2019

Overview

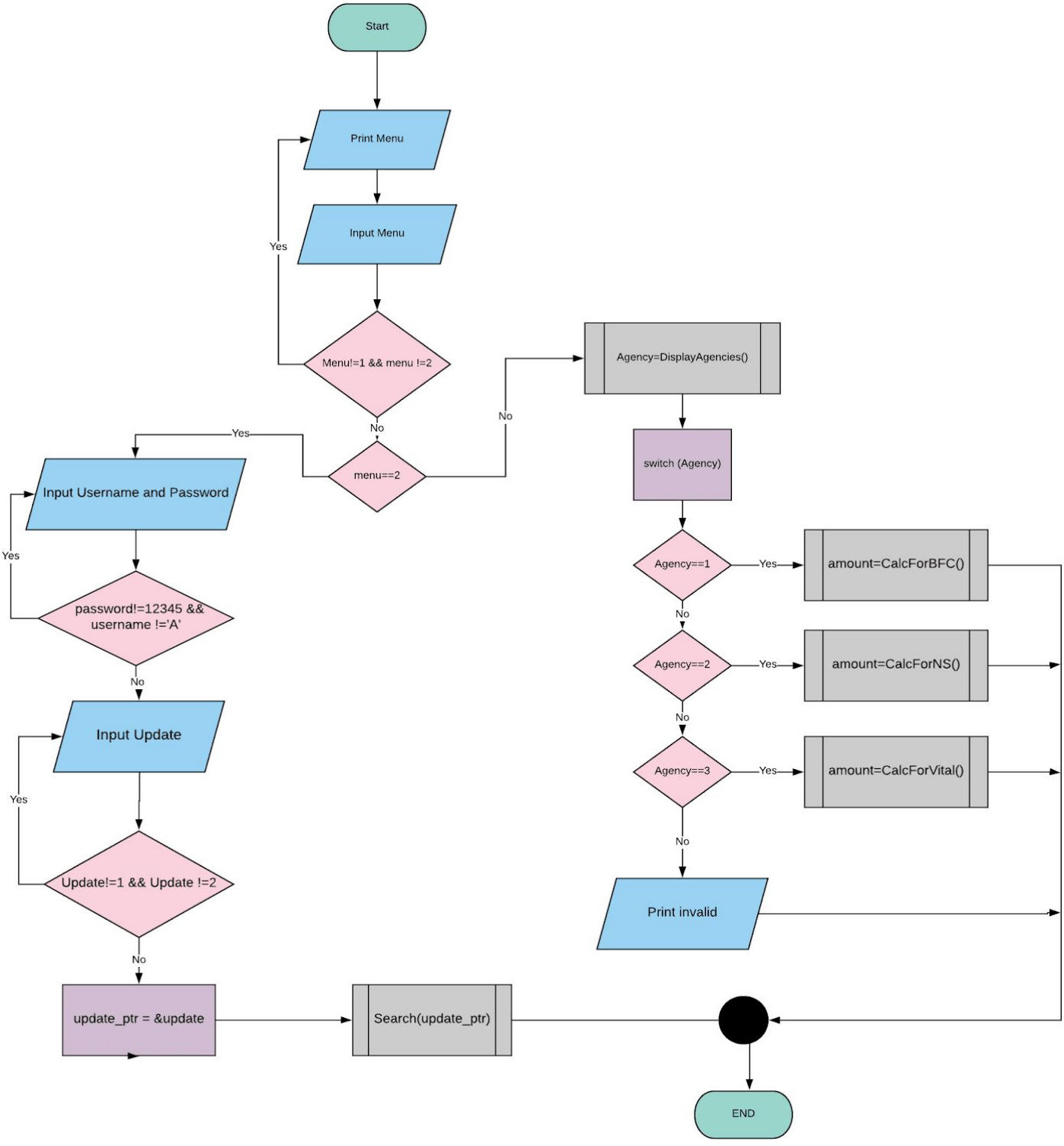
Our project is a money changer program which changes different currencies into ringgits and vice versa. All the user needs to do is first choose an agency they wish to buy or sell the money from as different agencies have different rates and our program has 3 agencies which are 'BFC', 'NS' and 'Vital' agency.

Then the user needs to choose whether they wish to convert ringgits to another currency or from another currency to ringgits (buying or selling). Then they need to choose the currency from the list that will be displayed on the screen and key in the amount that they wish to convert.

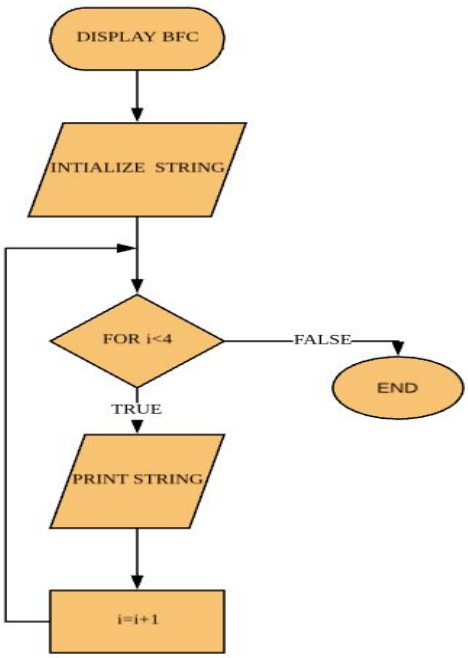
As you can see with just a few simple steps users can easily compare exchange rates, this saves the users a lot of time energy and effort as they don't need to travel back and forth amongst different agencies and they need to spend their time calculating all the different currency exchange rates as the program does it for them.

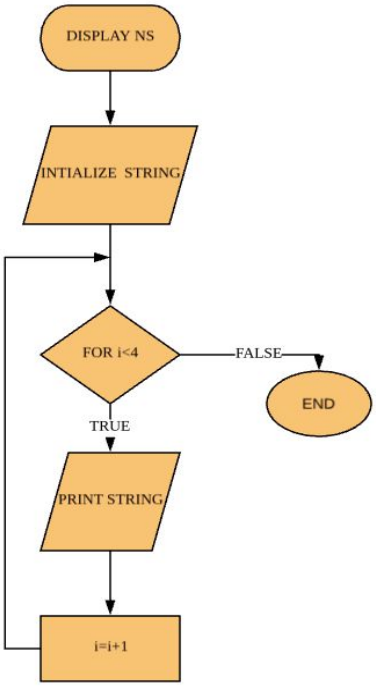
2. FLOWCHART

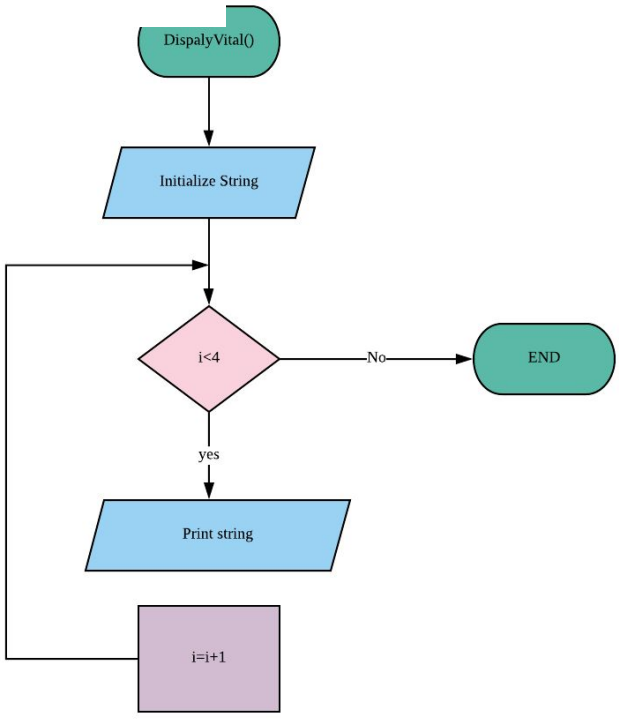
Main function:



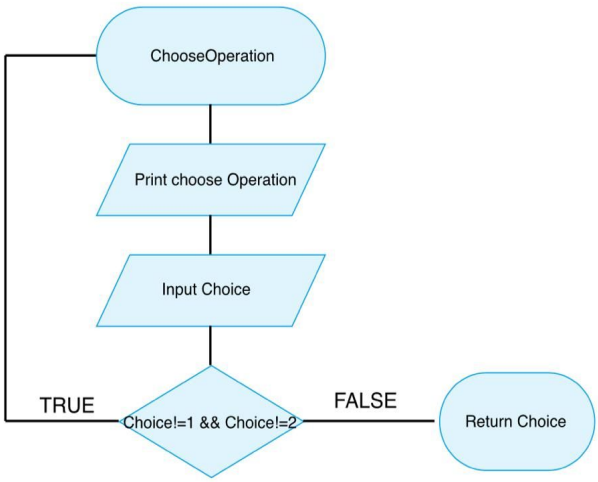
Display Functions:

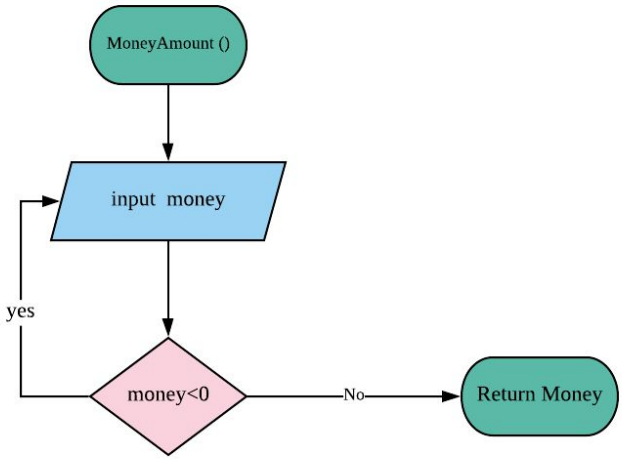


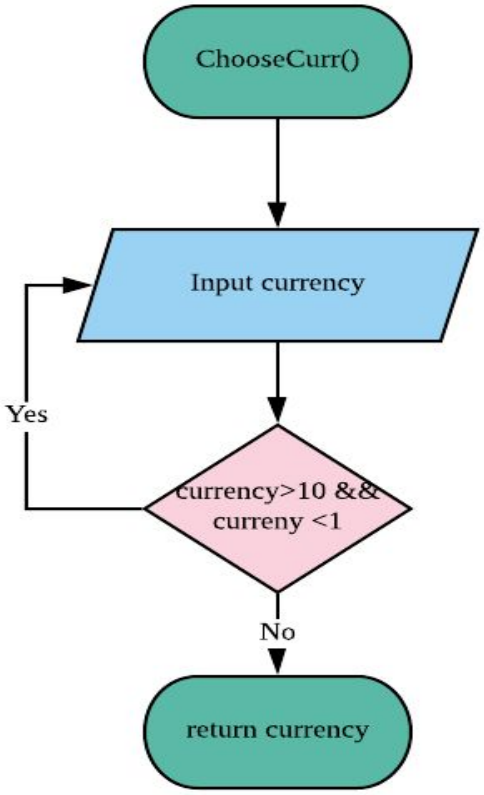


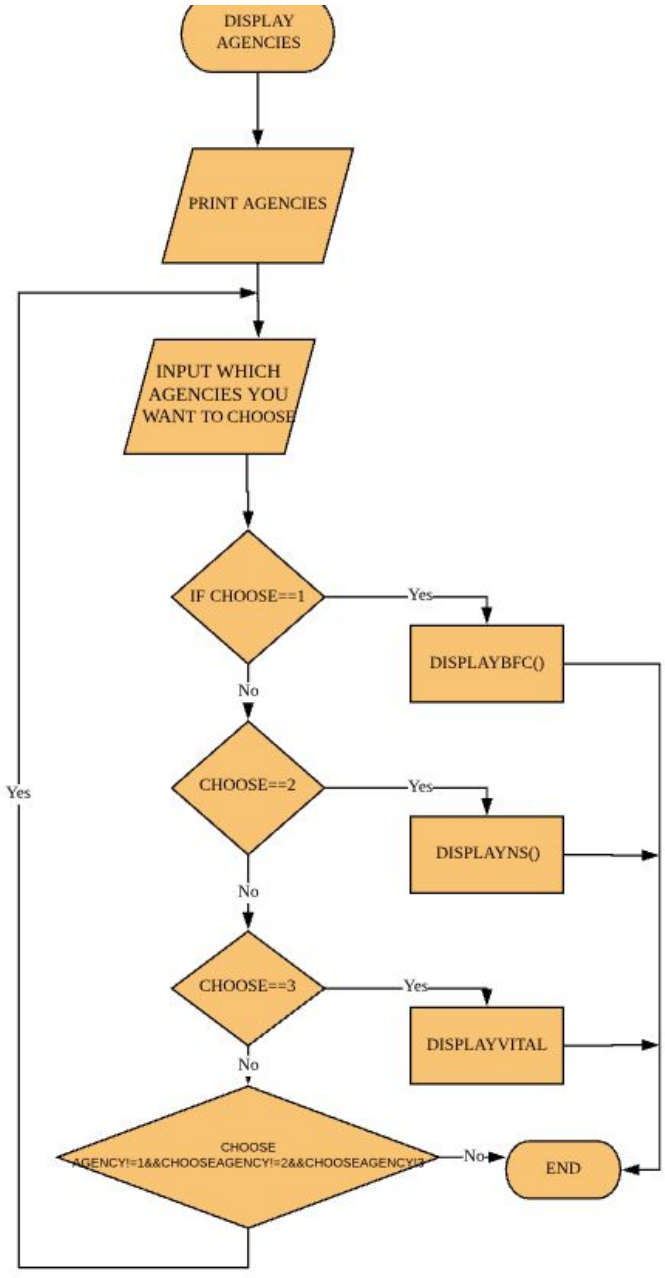


Input Functions:

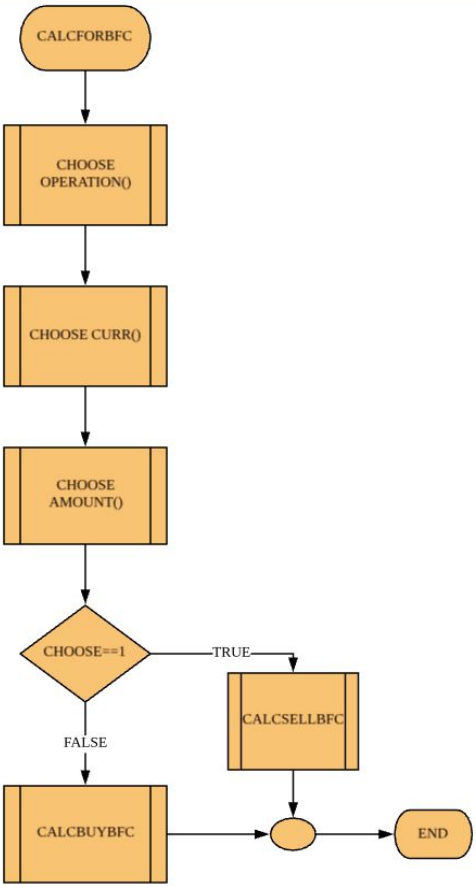


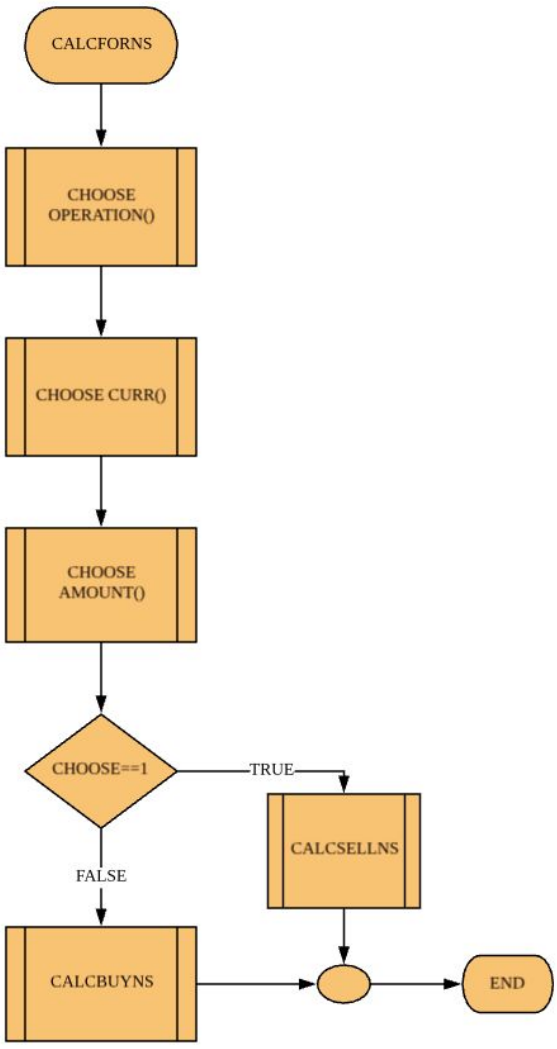


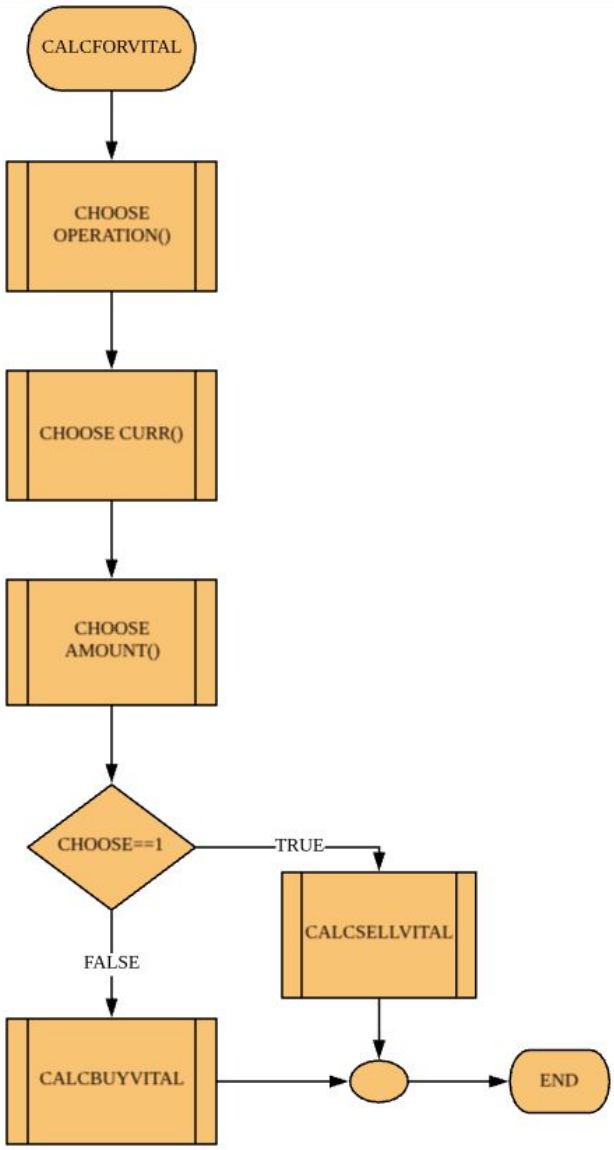



DISPLAY AGENCIES
PRINT AGENCIES
INPUT WHICH AGENCIES YOU WANT TO CHOOSE
IF CHOOSE==1
Yes
DISPLAYBFC()
No
CHOOSE==2
Yes
DISPLAYNS()
No
CHOOSE==3
Yes
DISPLAYVITAL
No
CHOOSE AGENCY!=1&&CHOOSEAGENCY!=2&&CHOOSEAGENCY!3
No
END
Yes

Calculation Functions:




CALCFORNS
CHOOSE OPERATION()
CHOOSE CURR()
CHOOSE AMOUNT()
CHOOSE==1
TRUE
CALCSELLNS
FALSE
CALCBUYNS
END


CALCFORVITAL
CHOOSE OPERATION()
CHOOSE CURR()
CHOOSE AMOUNT()
CHOOSE==1
TRUE
CALCSELLVITAL
FALSE
CALCBUYVITAL
END

List of Program Functions :

1- Display functions

- DisplayBFC ()
  It is a function that displays BFC's selling and buying price to the user with the list of currencies.

- DisplayNS ()
  It is a function that displays NS's selling and buying price to the user with the list of currencies.

- DisplayVital ()
  It is a function that displays Vital's selling and buying price to the user with the list of currencies.

2- Input Functions

- ChooseOperation()
  Allows the user to choose between buying or selling a currency. The user will have to insert either (1) or (2).

- ChooseCurr()
  It is a function that takes user choice for currency between 1-10.

- MoneyAmount()
  Takes the amount of money that the user wants to convert.

- DisplayAgencies()
  Allows user to choose between 3 Agencies

3-Update Function

- Search()

  Allow the Admin to change values for the selling or the buying price of BFC agency according to which currency.

4-Calculation Functions

- CalcForSellBFC()

  Convert the amount of money given by the user from RM to any currency that the user has chosen according to the selling price of BFC Agency.

- CalcForSellNS()

  Convert the amount of money given by the user from RM to any currency that the user has chosen according to the selling price of NS Agency.

- CalcForSellVital()

  Convert the amount of money given by the user from RM to any currency that the user has chosen according to the selling price of Vital Agency.

- CalcForBuyBFC()

  Convert the amount of money given by the user from any Currency that the user has chosen to RM according to the selling price of BFC Agency.

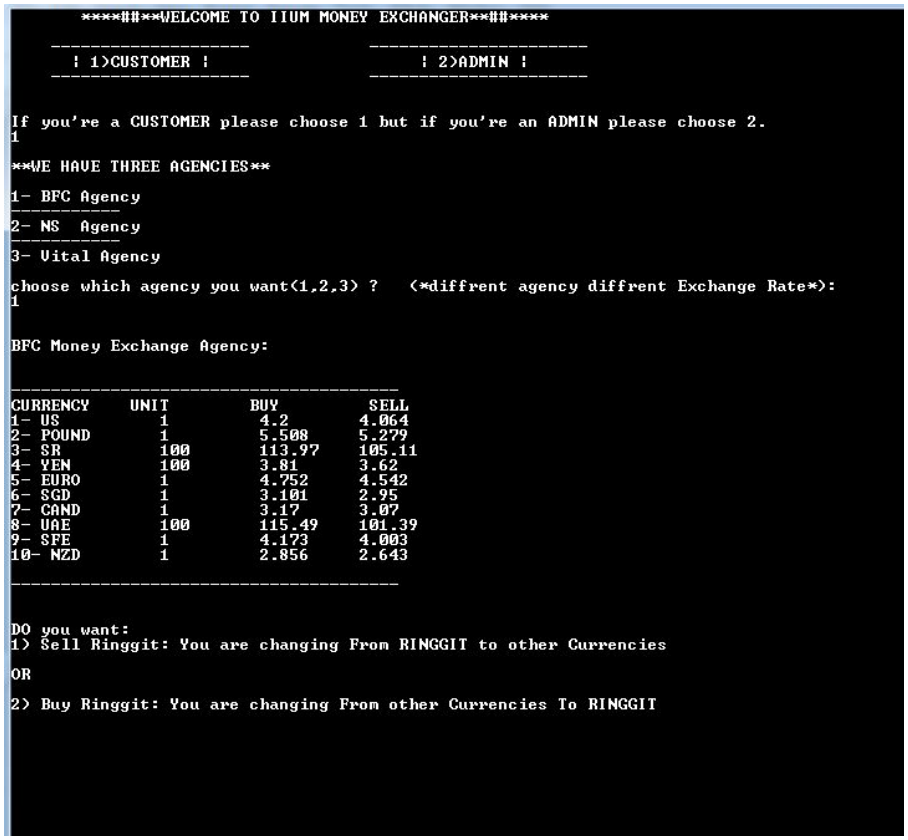
- CalcForBuyNS()

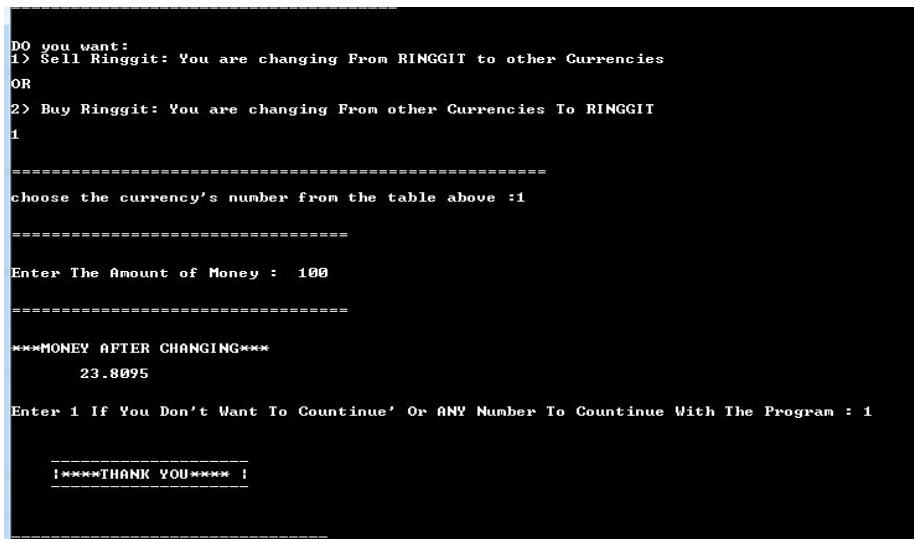
  Convert the amount of money given by the user from any Currency that the user has chosen to RM according to the selling price of NS Agency.

- CalcForBuyVital()

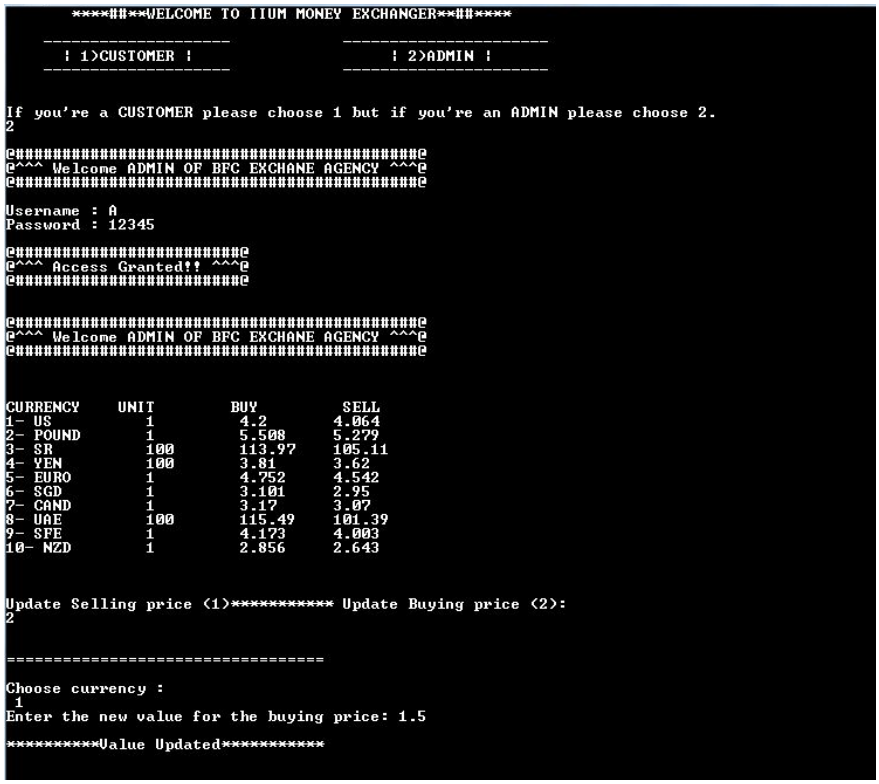
  Convert the amount of money given by the user from any Currency that the user has chosen to RM according to the selling price of Vital Agency.

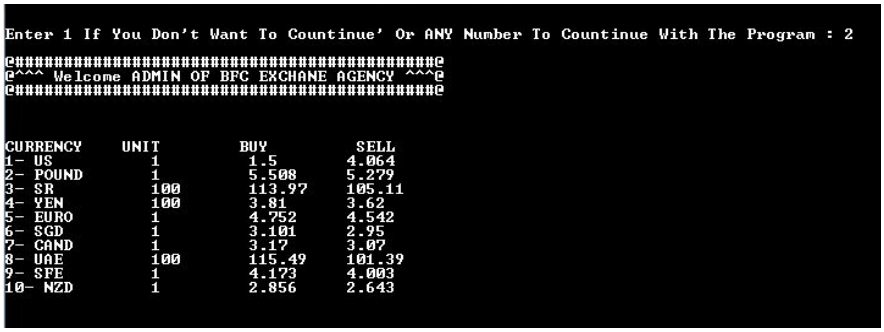
Customer view:



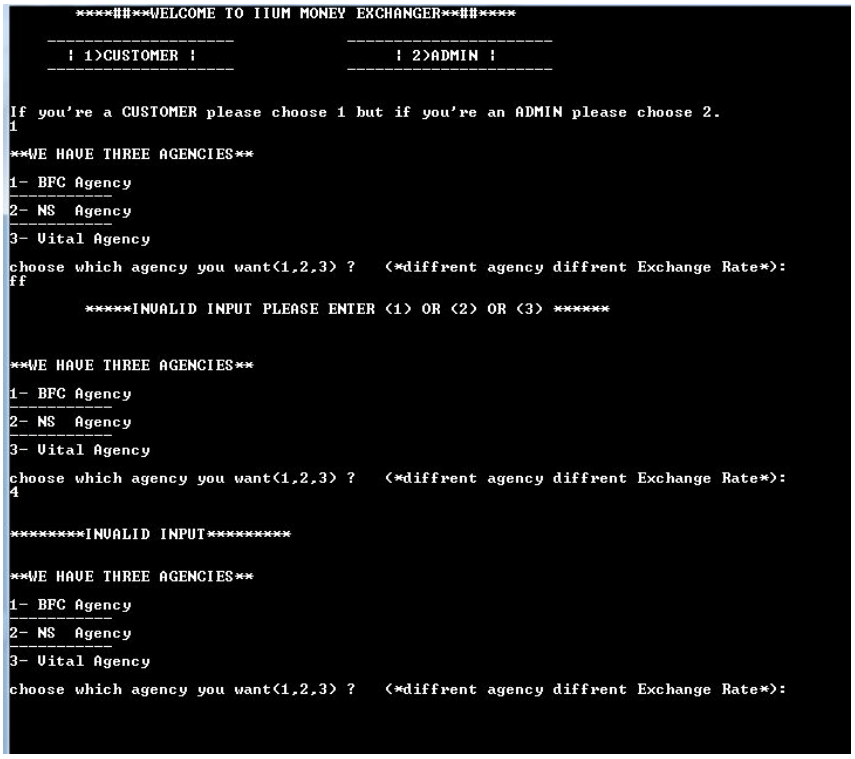


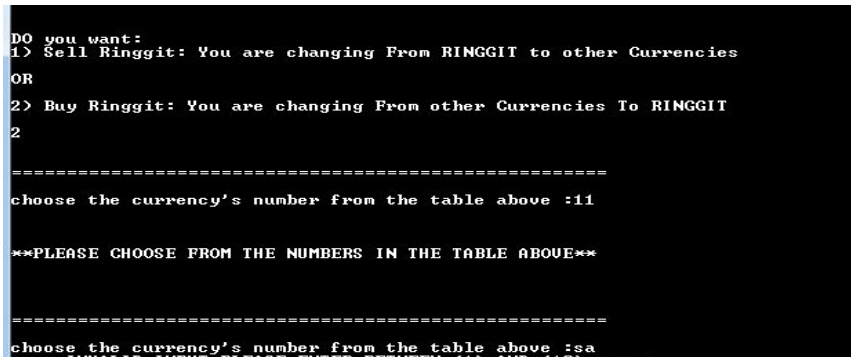
Admin view:


****####**WELCOME TO IIUM MONEY EXCHANGER**##****
| 1>CUSTOMER |
| 2>ADMIN |
If you're a CUSTOMER please choose 1 but if you're an ADMIN please choose 2.
2
@^^^ Welcome ADMIN OF BFC EXCHANE AGENCY ^^^@
Username : A
Password : 12345
@^^^ Access Granted!! ^^^@
@^^^ Welcome ADMIN OF BFC EXCHANE AGENCY ^^^@
CURRENCY UNIT BUY SELL
1- US 1 4.2 4.064
2- POUND 1 5.508 5.279
3- SR 100 113.97 105.11
4- YEN 100 3.81 3.62
5- EURO 1 4.752 4.542
6- SGD 1 3.101 2.95
7- CAND 1 3.17 3.07
8- UAE 100 115.49 101.39
9- SFE 1 4.173 4.003
10- NZD 1 2.856 2.643
Update Selling price (1)********** Update Buying price (2):
2
Choose currency :
1
Enter the new value for the buying price: 1.5
**********Value Updated**********


Enter 1 If You Don't Want To Countinue' Or ANY Number To Countinue With The Program : 2
@^^^ Welcome ADMIN OF BFC EXCHANE AGENCY ^^^@
CURRENCY UNIT BUY SELL
1- US 1 1.5 4.064
2- POUND 1 5.508 5.279
3- SR 100 113.97 105.11
4- YEN 100 3.81 3.62
5- EURO 1 4.752 4.542
6- SGD 1 3.101 2.95
7- CAND 1 3.17 3.07
8- UAE 100 115.49 101.39
9- SFE 1 4.173 4.003
10- NZD 1 2.856 2.643

Invalid Inputs:





CONCLUSION

We have successfully built a program of money changer in which the user can able to the different currencies into ringgits and vice versa and choosing from 3 different agency at different rates of prices as the user wishes (3 agencies are ‘BFC’, ‘NS’, ‘Vital’)

We built this program by implementing function and other methods to make the process of changing money currencies from ringgits to different country currency and vice versa more convenient and easier for the user and the admin.