**Mohammed Mahin Ibnay Mamun (346584) unit 4 2019 mock 0 pseudocode**

total\_cost = 0

fee = 0

conv\_amount = 0

staff = FALSE

transfer\_amount = INT (USERINPUT ("how much gbp would you like to transer ?"))

WHILE transfer\_amount < INT (1) THEN

OUTPUT("please enter a higher value")

transfer\_amount = INT (USERINPUT ("re-enter a higher amount:"))

WHILE transfer\_amount > INT (2500) THEN

OUTPUT ("please enter a higher value")

transfer\_amount = INT (USERINPUT ("re-enter a lower amount:"))

ELSE THEN

OUTPUT ("you are transfering GBP:",transfer\_amount)

DEF currencies () THEN

OUTPUT ("below are all the currencies which you can transfer GBP to")

OUTPUT (" American\_Dollars (USD) \n Euros (EUR) \n Brazilian\_Real (BRL)\nJapanese\_Yen (JPY) \nTurkish\_Lira (TRY)")

currencies ()

OUTPUT ("please choose a currency to transfer to from the list above (eg: usd / eur / brl / jpy / try)")

currency\_choice = USERINPUT ()

IF currency\_choice == "usd" THEN

OUTPUT ("you are converting gbp to american dollars")

ELIF currency\_choice == "eur" THEN

OUTPUT ("you are converting gbp to euros")

ELIF currency\_choice == "brl" THEN

OUTPUT ("you are converting gbp to brazilian real")

ELIF currency\_choice == "jpy" THEN

OUTPUT ("you are converting gbp to japanese yen")

ELIF currency\_choice == "try" THEN

OUTPUT ("you are converting gbp to turkish lira")

ELSE THEN

OUTPUT ("sorry an error occured please rerun the code and enter a valid currency listed above")

SYS.QUIT()

OUTPUT ("you are converting ", transfer\_amount, "gbp in to", currency\_choice)

OUTPUT ("the table below shows the value of 1 GBP")

currencylist = [

["USD", 1.40],

["EUR", 1.14],

["BRL", 4.77],

["JPY", 151.05],

["TRY", 5.68],]

OUTPUT (": currency code: amount: ")

FOR item IN currencylist THEN

OUTPUT (":", item [0], " "\* (3 - LEN (item [0])), ":", item [1], " " " "\* (6 - LEN (item [0])))

IF currency\_choice == "usd" THEN

OUTPUT ("1 GBP --> 1.40 USD")

conv\_amount = transfer\_amount \* 1.40

OUTPUT ("Your transfer amount is equal to ",conv\_amount, currency\_choice )

ELIF currency\_choice == "eur" THEN

OUTPUT ("1 GBP --> 1.14 EUR")

conv\_amount = transfer\_amount \* 1.14

OUTPUT ("Your transfer amount is equal to ",conv\_amount, currency\_choice )

ELIF currency\_choice == "brl" THEN

OUTPUT ("1 GBP --> 4.77 BRL")

conv\_amount = transfer\_amount \* 4.77

OUTPUT ("Your transfer amount is equal to ",conv\_amount, currency\_choice )

ELIF currency\_choice == "jpy" THEN

OUTPUT ("1 GBP --> 151.05 JPY")

conv\_amount = transfer\_amount \* 151.05

OUTPUT ("Your transfer amount is equal to ",conv\_amount, currency\_choice )

ELIF currency\_choice == "try" THEN

OUTPUT ("1 GBP --> 5.68 TRY")

conv\_amount = transfer\_amount \* 5.68

OUTPUT ("Your transfer amount is equal to ",conv\_amount, currency\_choice )

ELSE THEN

OUTPUT ("sorry an error occured please rerun the code and enter a valid currency listed above")

SYS.QUIT()

OUTPUT ("the table below shows the transaction fees")

transaction\_fee = [

["upto 300 GBP", 3.5],

["over 300 GBP", 3],

["over 750 GBP", 2.5],

["over 1000 GBP", 2],

["over 2000 GBP", 1.5],]

OUTPUT (": amount: fee rate: ")

FOR item IN transaction\_fee THEN

OUTPUT (":", item [0], " "\* (3 - LEN (item [0])), ":", item [1], " " " "\* (6 - LEN (item [0])))

IFtransfer\_amount <= INT 300 THEN

fee = 3.5

total\_cost = transfer\_amount \* fee

ELIF transfer\_amount > INT (300) AND transfer\_amount < INT (750) THEN

fee = 3

total\_cost = transfer\_amount \* fee

ELIF transfer\_amount >= INT (750) AND transfer\_amount <INT (1000) THEN

fee = 2.5

total\_cost = transfer\_amount \* fee

ELIF transfer\_amount >= INT (1000) and transfer\_amount < INT (2000) THEN

fee = 2

total\_cost = transfer\_amount \* fee

ELSE:

fee = 1.5

total\_cost = transfer\_amount \* fee

OUTPUT ("your transaction fee is: ", fee)

OUTPUT ("your total cost =",total\_cost)

staff = USERINPUT ("Are you a member of staff? yes / no ")

IF staff == "yes" OR staff == "YES" THEN

staff = TRUE

ELSE THEN

OUTPUT ("You are not a member of staff therefore, you are not allegible for discount")

IF staff == TRUE THEN

OUTPUT ("members of staff get a 5% discount")

total\_cost = total\_cost /1.05

OUTPUT ("Your discounted amount in gbp is", total\_cost)