CS3101 - COMPTUATIONAL THINKING LAB

BATCH – Q

WEEK 5 – 19.10.2023

EXECUTION AND SPOT

1. Read the following problem scenario:

Online bank transactions refers to bank transactions made on the specific bank site by a particular individual in a secure network i.e. without using hard cash, we can use the facility of debiting and crediting with the help of login ids and passwords provided by the bank.

Following operations are possible with a system that supports online bank transactions.

1. Online registration:

Firstly, the user has to register for an online banking account on the banks website by filling in the necessary details like his name, account no., mailing address, his contact no. and other necessary details.

2. Log in:

After registration, the user can now login in by entering his ID and password. After log in, the user gets various options and can perform various banking tasks.

3. Options:

The various options available after successful log in are:

(a) Account statement:

It gives the details of the various transactions made over a selected period of time. The user can get a detailed description of the transactions made by him over a selected period of time.

(b) Withdrawal:

This gives the user an option of withdrawing an amount of money from his account. The user can withdraw a specified amount and thus, his balance gets deducted accordingly.

(c) Deposit:

This gives the user an option to deposit money to his account and on deposition, the user's balance is increased accordingly.

(d) Current balance:

It gives the total amount of money left in the account after all the transactions have been made.

(e) Transfer:

This gives the option of transferring money to other accounts as well.

4. Log Out:

The user can safely log out of his account and go back to the home page of the Banking website

Draw a flow chart for the above problem, where each operation (1 to 4) and sub-operations (3a to 3e) are treated as a separate module /function /procedure.

(NOTE: Use multiway selection case structure that will be processed iteratively until a termination condition is satisfied).

2. Using Switch case statement, write an algorithm and flowchart that displays the following menu for the food items available to take order from the customer. The customer inputs the type of food and quantity. It finally displays the total charges for the order according to following criteria.
    - Burger (B) = Rs. 200
    - French Fries (F) = Rs. 50
    - Pizza (P) = Rs. 500
    - Sandwiches (S) = Rs. 150