

MCA Sem –II, 2020-2021
CSC26: Lab-III (OOP)
Assignment I (Last Date: 30-04-2021)

1. Define a Class **Largest** to obtain the largest of three given numbers.
2. Define a class **Bank_Account** to represent a bank account. It contains

Data Members:

Name of the depositor
Account Number
Type of account
Balance

Member Functions:

To assign initial values
To deposit an amount
To withdraw an amount < amount available
Display the name and balance.

3. Using the above class **Bank_account** and by supplying a user id and password allow users to Login using their id and password. Now if login was successful the user will be able to do the following:
 - Withdraw money.
 - Deposit money.
 - Display Balance.
 - Quit the program.

If login was not successful (for example the id or password did not match) then the user will be taken back to the introduction menu.

4. Create a class **Time** to add Two times provided in hour-minute format. Use *member functions*

- a) *void input()* to provide hour and minute.
- b) *void gettime(int,int)* to take hour and minute entered by user.
- c) *sum(time <obj>)* to add minutes and hours for two Time objects. If minutes is > 60 add 1 with hour.
- d) *void display()* to display the result.

5. Write a C++ program to add two complex numbers using class Complex having real and imag as data members.

(i) The class Complex contains three constructors.

One with no parameter. (Used for the object for storing result.)

With one parameter(Same value for real and imaginary part)

With two parameters (Different Values for real and imaginary part)

ii) Two **friend functions**

- a) One to add two complex numbers by taking two reference variables of class complex and returning another reference.
 - b) To display the result.
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