

Case:

Create a banking information system program that will be used to manage some **Account** data. It will be used to display data, to sort data with certain criteria, to search data and to perform the transaction (withdrawal and deposit). Withdrawal will reduce balance, while deposit will add balance. The Account data consists of accountNumber, name, motherName, phone, email and balance.

The program must have features/menus as follows:

1. Input/add **Account** data
2. Display all **Account** data
3. Sort **Account** data based on the **balance** in **descending** mode (you can use any sorting algorithm)
4. Display **Account** data that have **balance** = 0
5. Search **Account** data based on the **name** keyword
6. Withdraw certain **Account** for some money
7. Deposit certain **Amount** with some money

Use the following data for on your program

accountNumber	name	phone	email	Initial balance
16030927 3084	Wallace	1-458-264-3263	ligula.Nullam@tacitisociosqu.edu	10000
16100617 0573	Darius	1-357-843-0547	nec@lectusjusto.org	7000
16240401 2243	Fuller	571-7062	convallis@Vestibulumanteipsum.org	5000
16270525 0112	Malcolm	623-0234	porttitor.tellus.non@Curabitur.ca	44000
16971204 2416	Geoffrey	1-683-416-8323	ut.pellentesque@luctusutpellentesque.com	50000
16100727 8862	Rudyard	650-5379	Proin.eget@velitegestaslacinia.ca	123000
16460329 4259	Troy	897-7608	pede.Suspendisse.dui@a.ca	100000
16320421 3437	Alec	792-4447	non@mus.com	34000
16180729 7229	Walter	863-8209	Pellentesque.ut.ipsum@neque.ca	334544
16950313 6823	Simon	592-6919	tellus.justo.sit@commodoauctor.net	23444
16850708 3528	Kamal	1-115-339-7678	dictum@nec.edu	567770

Question:

Based on the case given above:

1. Create class diagram/s for your program design
2. Create the program that implements class diagram to solve the problem of the case above (give comments to give explanation for the source code)
3. Put the (1) class diagram, (2) screenshot of your program source code and (3) screenshot of the output of the program in a PDF file
4. Submit the PDF file through your LMS account