

Question 9

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Coding Question 1 – Part A

An array stores the details of customer transactions (account number, name of account holder, transaction type and amount) in a bank. Transaction type would be either Withdrawal (W or w) and Deposit (D or d). Use suitable data types for array creation.

Write a Java program to create an array and store the details of 5 customer transactions. Using the stored details, calculate the following:

- i.

Total deposit amount
- ii.

Total withdrawal amount
- iii.

Count of all deposit transactions
- iv.

Count of all withdrawal transactions
- v.

Name of customer who has deposited the maximum amount
- vi.

Name of the customer who has deposited the minimum amount

Sample Input:

Enter Customer 1 Name :

Enter Account Number :

Enter Transaction Type :

Enter Amount :

Enter Customer 2 Name :

Enter Account Number :

Enter Transaction Type :

Enter Amount :

.....

Enter Customer 5 Name :

Enter Account Number :

Enter Transaction Type :

Enter Amount :

Arrays:

Viraj	Sudesh	Ama	Danuli	Hiran
8254	1267	7823	9023	4587
D	d	W	w	D
500.00	1000.00	350.00	250.00	750.00

Sample Output:

Total Deposit Amount is : 2250.00

Total Withdrawal Amount is : 600.00

Count of All Deposit Transactions is : 3

Count of All Withdrawal Transactions is : 2

Maximum Deposit Amount Customer Name is : Sudesh

Maximum Withdrawal Amount Customer Name is : Ama

Save your program as: **ITxxxxxxxQ1A.java**

Replace 'ITxx xxx xxx' of the filename, with your own Student ID.

Question 1 – Part B

A 3 x 3 square display panel consists of LED bulbs of following colors: Red (R), Green (G), and Blue (B). Write a Java program asking user the position (row and column) of each LED bulb in the panel. Display the LED panel as a visual output. Finally ask the user to enter a one color (R, G, or B) and display all the positions (row and column) of the particular color in the panel.

Sample Output:

Enter Color for Position [0,0] : R

Enter Color for Position [0,1] : R

Enter Color for Position [0,2] : G

Enter Color for Position [1,0] : G

Enter Color for Position [1,1] : B

Enter Color for Position [1,2] : G

Enter Color for Position [2,0] : R

Enter Color for Position [2,1] : G

Enter Color for Position [2,2] : B

LED Panel Visual Display:

R R G
G B G
R G B

Select a Color (R, G, or B) to display all locations : R

Location of All Red LED Bulbs are : [0,0] [0,1] [2,0]

Save your program as: **ITxxxxxxxQ1B.java**

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