VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 4_COD_Hard_Structure Variables

Attempt : 1
Total Mark : 10
Marks Obtained : 5

Section 1 : Coding

1. Problem Statement

Create a structure for a customer of a bank with the following structure members: Account number, Customer name, Address, Date of Birth, Deposit, Withdraw details and Balance.

Write a program to perform the following operations:

Balance Enquiry (Input Account number and display details of the particular customer) Amount Deposit Amount Withdrawal (Minimum Balance of Rs.1000 should be maintained)   Display the updated passbook in a neat format.

Answer

```c
// You are using GCC
#include<stdio.h>
struct customer{
    int acc_no;
    char name[100];
    char address[50];
    char date[20];
    float deposit;
    float withdraw;
    float balance;
};
int main(){
    int n1;
    scanf("%d",&n1);
    struct customer c[n1];

    for(int i = 0; i < n1; i++){
        scanf("%d %s %s %s %f",&c[i].acc_no, c[i].name, c[i].address,
c[i].date,&c[i].balance);
        c[i].deposit = c[i].balance;
        c[i].withdraw = 0;
    }

    int n2;
    scanf("%d",&n2);

    if(n2 == 1){
        int a;
        scanf("%d",&a);
        for(int i = 0; i < n1; i++){
            if(c[i].acc_no == a){
                printf("%d %s %s %s %.2f %.2f %.2f\n",c[i].acc_no,c[i].name,c[i].address,c[
i].date,c[i].deposit,c[i].withdraw,c[i].balance);
            }
        }
    }
    else if(n2 == 2){
        int b;
        scanf("%d",&b);
        for(int i = 0; i < n1; i++){
            if(c[i].acc_no == b){
                printf("Amount Deposited Successfully!\n");
```

```c
        }
      }
    }
    else if(n2 == 3){
        int d;
        int e;
        int check = 0;
        scanf("%d %d",&d,&e);
        for(int i = 0; i < n1; i++){
            if(c[i].acc_no == d){
                if(c[i].balance - e >= 1000){
                    c[i].balance -=e;
                    c[i].withdraw += e;
                    printf("Amount Withdrawn Successfully!\n");
                    check = 1;
                }
            }
        }
        if(check == 0){
            printf("Minimum Balance of Rs.1000 should be maintained\n");
        }
    }
    else{
        printf("Account No.    Customer Name        Address        Date of Birth
Deposit        Withdrawal      Balance");
        printf("\n");
        for(int i = 0; i < n1; i++){
            printf("%-15d %-22s %-15s %-15s %-15.2f %-15.2f %-15.2f",
c[i].acc_no,c[i].name,c[i].address,c[i].date,c[i].deposit,c[i].withdraw,c[i].balance);;
            printf("\n");
        }
    }
    return 0;
}
```

Status : Partially correct   *Marks : 5/10*