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Mid-Term

- 1) Write a c program to maintain the bank records in linked list. The node should contain, account number, mobile number, balance, branch name. Also a pointer to next node.
- a. Create around 7 nodes
b. Perform a deletion at the last.

CODE:

```
#include<stdio.h>
#include<stdlib.h>
struct bank
{
    int acc_num,mob_num;
    float balance;
    char branch_name[100];
    struct bank *next;
};
typedef struct bank node;

int create()
{
    int k, n;
    node *p,*head;
    printf("\nEnter number of data to enter: ");
    scanf("%d",&n);
    for(k=0;k<n;k++)
    {
        if(k==0)
        {
            head=(node*) malloc(sizeof(node));
            p=head;
        }
        else
        {
            p->next=(node*) malloc(sizeof(node));
            p=p->next;
        }

        printf("\nEnter the account number : ");
        scanf("%d",&p->acc_num);
        printf("\nEnter the balance : ");
        scanf("%f",&p->balance);
        printf("\nEnter the branch name : ");
        scanf("%s",p->branch_name);
    }
    p->next=NULL;
    return head;
}

int delete(node *head)
{
    int acc_no;
    node *p,*q;
```

```

printf("\n\nDelete for account number: ");
scanf("%d",&acc_no);
p=head;

if(p->acc_num==acc_no)
{
    head=p->next;
    free(p);
}

else
{
    while((p->next!=NULL)&&(p->acc_num!=acc_no))
    {
        q=p;
        p=p->next;
    }
    if((p->next==NULL)&&(p->acc_num==acc_no))
    {
        q->next=NULL;
        free(p);
    }
    else if((p->next!=NULL)&&(p->acc_num==acc_no))
    {
        q->next=p->next;
        free(p);
    }
    else
    {
        printf("Details Absent");
    }
}

return(head);
}

void display(node *head)
{
    node *p;
    p=head;

    while(p!=NULL)
    {
        printf("\n\nAccount Number: %d",p->acc_num);
        printf("\nBalance: %.2f",p->balance);
        printf("\nBranch Name: %s",p->branch_name);
        p=p->next;
    }
}

int main()
{
    node *head;
    head = create();
    display(head);
    head=delete(head);
    display(head);
    return 0;
}

```

```
Enter the account number : 1
Enter the balance : 20
Enter the branch name : vit
Enter the account number : 2
Enter the balance : 30
Enter the branch name : vit
Enter the account number : 3
Enter the balance : 40
Enter the branch name : vit
Enter the account number : 4
Enter the balance : 50
Enter the branch name : sbi
Enter the account number : 5
Enter the balance : 60
Enter the branch name : vit
Enter the account number : 6
Enter the balance : 70
Enter the branch name : vit
Enter the account number : 7
Enter the balance : 80
Enter the branch name : vit

Account Number: 1
Balance: 20.00
Branch Name: vit

Account Number: 2
Balance: 30.00
Branch Name: vit

Account Number: 3
Balance: 40.00
Branch Name: vit

Account Number: 4
Balance: 50.00
Branch Name: sbi
```

Account Number: 5
Balance: 60.00
Branch Name: vit

Account Number: 6
Balance: 70.00
Branch Name: vit

Account Number: 7
Balance: 80.00
Branch Name: vit

Delete for account number: 4

Account Number: 1
Balance: 20.00
Branch Name: vit

Account Number: 2
Balance: 30.00
Branch Name: vit

Account Number: 3
Balance: 40.00
Branch Name: vit

Account Number: 5
Balance: 60.00
Branch Name: vit

Account Number: 6
Balance: 70.00
Branch Name: vit

Account Number: 7
Balance: 80.00
Branch Name: vit