BANKING SYSTEM

(USING LINKED LIST DATA STRUCTURE)

PROJECT IN C

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CODE:

```
#include<stdio.h>
#include<stdlib.h>
#include<conio.h>
typedef struct Bank{
    char name[100];
    int adhar;
    char profession[100];
    char address[1000];
    int balance;
    int fix;
    int ac;
    struct Bank *next;
    }node;
node *start=NULL;
node* createnode()
    node *n;
    n=(node*)malloc(sizeof(node));
    return(n);
void insert()
    node *temp,*prev;
    temp=createnode();
    int value1;
    char ch[100];
    printf("\n\t\tEnter the name:- ");
    scanf("%s",temp->name);
    printf("\n\t\tEnter the Adahar no.:- ");
    scanf("%d",&value1);
    int flag=0;
    node *search;
    search=start;
    if(start==NULL)
        flag=0;
        while(search!=NULL)
```

```
if(value1==search->adhar)
            flag=1;
            printf("\n\t\tId already exists");
            break;
        else
            search=search->next;
if(flag==0)
    temp->adhar=value1;
    fflush(stdin);
    printf("\n\t\tEnter the profession:- ");
    scanf("%s",temp->profession);
    fflush(stdin);
    printf("\n\t\tEnter the address:- ");
    scanf("%s",temp->address);
    fflush(stdin);
    printf("\n\t\t1000 diposited in this account\n ");
    temp->balance=1000;
    printf("\n\t\tEnter the fix diposit:- ");
    scanf("%d",&temp->fix);
    if(temp->fix<0)</pre>
        temp->fix=0;
    int acc=rand()%989785;
    printf("\n\t\tUnique bank ac id. Is %d\n",acc);
    temp->ac=acc;
    temp->next=NULL;
    if(start==NULL)
        start=temp;
        node *t;
        t=start;
        while(t->next!=NULL)
            t=t->next;
        t->next=temp;
```

```
void widraw()
   int value1;
   printf("\n\t\tEnter the Adahar no.:- ");
   scanf("%d",&value1);
   int flag=0;
   node *search;
   search=start;
   if(start==NULL)
        flag=0;
       while(search!=NULL)
           if(value1==search->adhar)
                flag=1;
                break;
                search=search->next;
   if(flag==1)
        node *t=search;
       int limit;
        printf("\n\t\tEnter the amount");
        scanf("%d",&limit);
        if(limit>0 && limit<t->balance)
            t->balance-=limit;
           printf("\n\t\t%d debited from account no. %d\n",limit,t->ac);
           printf("\n\t\tYour current balance is %d\n",t->balance);
        else
           printf("\n\t\tEnter a valid limit\n");
```

```
else
        printf("\nNo id. Exists\n");
void deposit()
   int value1;
   printf("\n\t\tEnter the Adahar no.:- ");
   scanf("%d",&value1);
   int flag=0;
   node *search;
   search=start;
   if(start==NULL)
        flag=0;
   else
       while(search!=NULL)
            if(value1==search->adhar)
                flag=1;
                break;
            else
                search=search->next;
   if(flag=1)
        node *t=search;
       int limit;
        printf("\n\t\tEnter the amount");
        scanf("%d",&limit);
        if(limit>0)
            t->balance+=limit;
            printf("\n\t\t%d credited in account no %d\n",limit,t->ac);
            printf("\n\t\tYour current balance is %d\n",t->balance);
```

```
else
            printf("\n\t\tEnter a valid limit\n");
        printf("\nNo id. Exists\n");
void fix()
        int value1;
   printf("\n\t\tEnter the Adahar no.:- ");
   scanf("%d",&value1);
   int flag=0;
   node *search;
   search=start;
   if(start==NULL)
        flag=0;
       while(search!=NULL)
            if(value1==search->adhar)
                flag=1;
                break;
                search=search->next;
   if(flag=1)
        node *t=search;
        int limit;
        printf("\n\t\tEnter the amount:- ");
        scanf("%d",&limit);
        if(limit>0)
```

```
t->fix+=limit;
            printf("\n\t\t%d deposited in account no %d\n",limit,t->ac);
            printf("\n\t\tEnter a valid limit\n");
   else
        printf("\nNo id. Exists\n");
void viewlist()
   node *view;
   int count=1;
   if(start==NULL)
        printf("\n\t\tList is empty.\n");
        view=start;
       while(view!=NULL)
        printf("\n\t\t[*Information of Client no. %d]",count);
        printf("\n\t\tName :- ");
        printf("%s",view->name);
        printf("\n\t\tAdhar No. :- ");
        printf("%d", view->adhar);
        printf("\n\t\tAccount number:- ");
        printf("%d", view->ac);
        printf("\n\t\tProfession:- ");
        printf("%s", view->profession);
        printf("\n\t\tAddress:- ");
        printf("%s", view->address),
        printf("\n\t\tBalace:- ");
        printf("%d",view->balance),
        printf("\n\t\tFixed Diposit:- ");
        printf("%d\n\n", view->fix);
        count++;
        view=view->next;
        count--;
        printf("\n\n\t\tNo of accounts = %d\n",count);
```

```
void view()
   int value1;
   printf("\n\t\tEnter the Adahar no.:- ");
   scanf("%d",&value1);
   int flag=0;
   node *search;
   search=start;
   if(start==NULL)
        flag=0;
       while(search!=NULL)
            if(value1==search->adhar)
                flag=1;
                printf("\n\t\tId already exists");
                break;
                search=search->next;
   if(flag=1)
        node *view=search;
        printf("\n\t\tName :- ");
        printf("%s", view->name);
        printf("\n\t\tAdhar No. :- ");
        printf("%d", view->adhar);
        printf("\n\t\tAccount number:- ");
        printf("%d",view->ac);
        //view->roll=value1;
        printf("\n\t\tProfession:- ");
        printf("%s", view->profession);
        printf("\n\t\tAddress:- ");
        printf("%s", view->address),
        printf("\n\t\tBalace:- ");
        printf("%d", view->balance),
```

```
printf("\n\t\tFixed Diposit:- ");
        printf("%d\n\n",view->fix);
        printf("\nNo account exists\n");
void close()
   int value1;
   printf("\n\t\tEnter the Adahar no.:- ");
   scanf("%d",&value1);
   int flag=0;
   node *search;
   search=start;
   if(start==NULL)
        printf("\nNo account exists.\n");
   else if(start->adhar==value1)
       node *t;
       t=start;
       if(start->next==NULL)
            start=NULL;
        else
            start=start->next;
        free(t);
        printf("\n\t\tAccount deleted\n");
       node *prev,*t;
        t=start->next;
        while(t!=NULL && t->adhar!=value1)
            prev=t;
            t=t->next;
        if(t->next==NULL)
            printf("\n\t\tNo account exists\n");
```

```
else
           node *link;
           link=t->next;
           if(t->next==NULL)
               prev->next=NULL;
               prev->next=link;
           free(t);
           printf("\n\t\tAccount deleted\n");
int menu()
   int choice;
   printf("\n1: Register an account\n");
   printf("\n2: Withdraw money\n");
   printf("\n3: Deposit money\n");
   printf("\n4: Fixed Diposit\n");
   printf("\n5: Close account\n");
   printf("\n6: Get statements (account)\n");
   printf("\n7: View All account\n");
   printf("\n0: Close application\n");
   printf("\n\t\tENTER YOUR CHOICE:- ");
   scanf("%d",&choice);
   return(choice);
int main()
   printf("\n|**************|\n\n");
   while(1)
       switch(menu())
           case 1:
               insert();
               break;
           case 2:
              widraw();
```

```
break;
        case 3:
            deposit();
            break;
        case 4:
            fix();
           break;
            close();
            break;
        case 6:
            view();
            break;
            viewlist();
            break;
        case 0:
            printf("\n\t\tProject by Ramakrishna");
            exit(1);
            break;
        default:
            printf("\nENTER A VALID CHOICE");
return(0);
```

SAMPLE OUTPUT:

```
1: Register an account
2: Withdraw money
3: Deposit money
4: Fixed Diposit
5: Close account
6: Get statements (account)
7: View All account
0: Close application
              ENTER YOUR CHOICE: - 1
              Enter the name: - rk
              Enter the Adahar no.:- 1234
              Enter the profession:- student
              Enter the address:- 23-4
              1000 diposited in this account
              Enter the fix diposit: - 1500
              Unique bank ac id. is 41
```

```
1: Register an account
2: Withdraw money
3: Deposit money
4: Fixed Diposit
5: Close account
6: Get statements (account)
7: View All account
0: Close application
               ENTER YOUR CHOICE:- 7
               [*Information of Client no. 1]
               Name :- rk
               Adhar No. :- 1234
               Account number: - 41
               Profession: - student
               Address:- 23-4
               Balace:- 1000
               Fixed Diposit: - 1500
               No of accounts = 1
1: Register an account
2: Withdraw money
3: Deposit money
4: Fixed Diposit
5: Close account
6: Get statements (account)
7: View All account
0: Close application
                 ENTER YOUR CHOICE: - 5
                 Enter the Adahar no.:- 1234
                 Account deleted
```

```
1: Register an account
2: Withdraw money
3: Deposit money
4: Fixed Diposit
5: Close account
6: Get statements (account)
7: View All account
0: Close application

ENTER YOUR CHOICE:- 7

List is empty.
```
