

DATA STRUCTURE PROJECT: CODE

PROJECT TITLE:-

Banking System

SUBMITTED BY:-

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SOURCE CODE:-

```
{
    int account_no;
    char account_holder_name[80];
    int account_holder_phno;
    int balance;
    int age;
};

void accept(struct customer[],int);
void display(struct customer[],int);
int search(struct customer[],int,int);
void deposit(struct customer[],int,int,int);
void withdraw(struct customer[],int,int,int);

int main()
{
    struct customer data[100];
    int n,choice,account_no,amount,i;

    printf("*****\n\n");
    printf("\t\t\t\t\tBanking System\n\n");
```

```

printf("*****
*****
*****\n\n");
printf("Number of customer records you want to enter? : ");
scanf("%d",&n);
accept(data,n);
do
{
    printf("*****");
    printf("\nBanking System Menu :\n");
    printf("Press 1 to display all records.\n");
    printf("Press 2 to search a record.\n");
    printf("Press 3 to deposit amount.\n");
    printf("Press 4 to withdraw amount.\n");
    printf("Press 0 to exit\n");
    printf("*****");
    printf("\nEnter choice(0-4) : ");
    scanf("%d",&choice);
    switch (choice)
    {
        case 1:
            display(data,n);
            break;
        case 2:
            printf("Enter account number you want to search : ");
            scanf("%d",&account_no);

```

```

        i=search(data,n,account_no);
        if(i== - 1)
        {
            printf("The account number you entered is invalid
!!\n ");
        }
        else
        {
            printf("Account Number :
%d\n",data[i].account_no);
            printf("Name of the account holder :
%s\n",data[i].account_holder_name);
            printf("Account Holder Age : %d\n",data[i].age);
            printf("Account Holder phno :
%d\n",data[i].account_holder_phno);
            printf("Balance in the account :
%d\n",data[i].balance);
        }
        break;
    case 3:
        printf("Enter account number to deposit money : ");
        scanf("%d",&account_no);
        printf("Enter the amount you want to deposit : ");
        scanf("%d",&amount);
        deposit(data,n,account_no,amount);
        break;
    case 4:

```

```

        printf("Enter account number to withdraw money : ");
        scanf("%d",&account_no);
        printf("Enter the amount you want to withdraw : ");
        scanf("%d",&amount);
        withdraw(data,n,account_no,amount);
    }
}
while (choice!=0);

return 0;
}

```

```

void accept(struct customer list[80],int a)
{
    int b;
    for(b=0;b<a;b++)
    {
        printf("\nEnter data for Record #0%d",b + 1);

        printf("\nEnter the Account Number : ");
        scanf("%d",&list[b].account_no);
        fflush(stdin);
        printf("Enter Name of the Account Holder : ");
        scanf("%s",&list[b].account_holder_name);
        printf("Enter Age of the Account Holder : ");
        scanf("%d",&list[b].age);
        printf("Enter Account Holder phno : ");
    }
}

```

```

scanf("%d",&list[b].account_holder_phno);

list[b].balance = 0;
}
}

void display(struct customer list[80],int s)
{
    int i;

    printf("\n\nAccount no\t\tAccount Holder Name\t\tAccount
Holder Age\t\tAccount holder phno\t\tAccount Balance\n");
    for(i=0;i<s;i++)
    {

printf("\n%d\t\t\t%s\t\t\t%d\t\t\t%d\t\t\t%d\n\n",list[i].accou
nt_no,list[i].account_holder_name,list[i].age,list[i].account_hol
der_phno,list[i].balance);
    }
}

int search(struct customer list[80],int s,int number)
{
    int i;

    for(i=0;i<s;i++)
    {

```

```
    if(list[i].account_no == number)
    {
        return i;
    }
}
return - 1;
}
```

```
void deposit(struct customer list[],int s,int number,int amount)
{
    int i = search(list,s,number);
    if(i == - 1)
    {
        printf("The account number you entered is invalid !!");
    }
    else
    {
        list[i].balance += amount;
    }
}
```

```
void withdraw(struct customer list[],int s,int number,int amount)
{
    int i = search(list,s,number);
    if(i == - 1)
    {
        printf("The account number you entered is invalid !!\n");
    }
}
```

```
}  
else if(list[i].balance < amount)  
{  
    printf("\n The Balance in Account is Insufficient to  
withdraw\n");  
}  
else  
{  
    list[i].balance -= amount;  
}  
}
```

SAMPLE INPUT & SAMPLE OUTPUT:-


```
*****
                                     Banking System
*****
```

Number of customer records you want to enter? : 4

Enter data for Record #1

Enter the Account Number : 134679

Enter Name of the Account Holder : Lohith

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9440101748

Enter data for Record #2

Enter the Account Number : 672398

Enter Name of the Account Holder : Mohith

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9491023879

Enter data for Record #3

Enter the Account Number : 839256

Enter Name of the Account Holder : Manjuu

Enter Age of the Account Holder : 18

Enter Account Holder phno : 9103459129

Enter data for Record #4
Enter the Account Number : 216347
Enter Name of the Account Holder : Mahesh
Enter Age of the Account Holder : 18
Enter Account Holder phno : 9652789149

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 1

Account no	Account Holder Name	Account Holder Age	Account holder phno	Account Balance
134679	Lohith	18	850167156	0
672398	Mohith	18	901089287	0
839256	Manjuu	18	513524537	0

216347	Mahesh	18	1062854557	0
--------	--------	----	------------	---

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 2

Enter account number you want to search : 134679

Account Number : 134679

Name of the account holder : Lohith

Account Holder Age : 18

Account Holder phno : 850167156

Balance in the account : 0

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 3

Enter account number to deposit money : 134679

Enter the amount you want to deposit : 10000

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 3

Enter account number to deposit money : 672398

Enter the amount you want to deposit : 10000

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 3

Enter account number to deposit money : 839256

Enter the amount you want to deposit : 10000

Banking System Menu :

```
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 3
Enter account number to deposit money : 216347
Enter the amount you want to deposit : 10000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 134679
Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
```

```
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 672398
Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 839256
Enter the amount you want to withdraw : 5000
*****
Banking System Menu :
Press 1 to display all records.
Press 2 to search a record.
Press 3 to deposit amount.
Press 4 to withdraw amount.
Press 0 to exit
*****
Enter choice(0-4) : 4
Enter account number to withdraw money : 216347
```

Enter the amount you want to withdraw : 5000

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 1

Account no	Account Holder Name	Account Holder Age	Account holder phno	Account Balance
134679	Lohith	18	850167156	5000
672398	Mohith	18	901089287	5000
839256	Manjuu	18	513524537	5000
216347	Mahesh	18	1062854557	5000

Banking System Menu :

Press 1 to display all records.

Press 2 to search a record.

Press 3 to deposit amount.

Press 4 to withdraw amount.

Press 0 to exit

Enter choice(0-4) : 0