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### **SOURCE CODE:**

```
#include <stdio.h>
```

```
struct customer  
{  
    int account_no;  
    char name[80];  
    int balance;  
};
```

```
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[20];  
    int n, choice, account_no, amount, index;  
    printf("Number of customer records you want to enter? : ");  
    scanf("%d", &n);  
    accept(data, n);
```

do

```
{ printf("Press 1 to display all records.\n");
  printf("Press 2 to withdraw money.\n");
  printf("Press 3 to deposit money.\n");
  printf("Press 4 to search a customer.\n");
  printf("Press 0 to exit\n");
  scanf("%d", &choice);
  switch (choice)
  {
    case 1:
      display(data, n);
      break;
    case 4:
      printf("Enter account number to search : ");
      scanf("%d", &account_no);
      index = search(data,n,account_no);
      if (index== - 1)
        printf("Record not found : ");
      else
      {
        printf("A/c Number: %d\nName: %s\nBalance: %d\n",
              data[index].account_no, data[index].name,
              data[index].balance);
      }
      break;
    case 3:
      printf("Enter account number : ");
      scanf("%d", &account_no);
      printf("Enter amount to deposit : ");
      scanf("%d", &amount);
```

```

        deposit(data, n, account_no, amount);
        break;
    case 2:
        printf("Enter account number : ");
        scanf("%d", &account_no);
        printf("Enter amount to withdraw : ");
        scanf("%d", &amount);
        withdraw(data,n,account_no,amount);
    }
}
while (choice != 0);

return 0;
}

```

```

void accept(struct customer list[80], int s)
{
    int i;
    for (i = 0; i < s; i++)
    {
        printf("\nEnter data for Record #%d", i + 1);
        printf("\nEnter account_no : ");
        scanf("%d", &list[i].account_no);
        //flush(stdin);
        printf("Enter name : ");
        scanf("%s",&list[i].name);
        printf("Enter amount: ");
        scanf("%d",&list[i].balance);
    }
}

```

```

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

    printf("\n\nA/c No\tName\tBalance\n");
    for (i = 0; i < s; i++)
    {
        printf("%d\t\t%s\t\t%d\n", list[i].account_no, list[i].name,
            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 amt)
{
    int i = search(list, s, number);
    if (i == - 1)
        printf("Record not found");
    else

```

```
    list[i].balance += amt;  
}
```

```
void withdraw(struct customer list[], int s, int number, int amt)  
{  
    int i = search(list, s, number);  
    if (i == - 1)  
        printf("Record not found\n");  
    else if(list[i].balance < amt)  
        printf("Insufficient balance\n");  
    else  
        list[i].balance -= amt;  
}
```

Output:

1. Input screen:

```
Number of customer records you want to enter? : 2
Enter data for Record #1
Enter account_no : 101
Enter name : Krish
Enter amount: 1000000
Enter data for Record #2
Enter account_no : 102
Enter name : Mithilesh
Enter amount: 150
```

2. Main Menu:

```
Press 1 to display all records.
Press 2 to withdraw money.
Press 3 to deposit money.
Press 4 to search a customer.
Press 0 to exit
```

3. Display records:

```
1
A/c No  Name    Balance
101     Krish     1000000
102     Mithilesh    150
```

4. Withdraw amount:

```
2
Enter account number : 102
Enter amount to withdraw : 149
```

5. Record display after withdrawal:

```
1
A/c No  Name      Balance
101     Krish      1000000
102     Mithilesh    1
```

6. Deposit amount:

```
3
Enter account number : 101
Enter amount to deposit : 1000000
```

7. Record display after amount deposit:

```
1
A/c No  Name      Balance
101     Krish      2000000
102     Mithilesh    1
```

8. Search for a single record:

```
4
Enter account number to search : 101
A/c Number: 101
Name: Krish
Balance: 2000000
```

## Screenshot:

The screenshot shows a C++ IDE with a file named `main.c`. The code implements a simple banking system with functions for searching, depositing, and withdrawing money. The output window shows the program's execution, including menu prompts and account details.

```
main.c
99 int i;
100 for (i = 0; i < s; i++)
101 {
102     if (list[i].account_no == number)
103         return i;
104 }
105 return -1;
106 }
107
108 void deposit(struct customer list[], int s, int number, int amt)
109 {
110     int i = search(list, s, number);
111     if (i == -1)
112         printf("Record not found");
113     else
114         list[i].balance += amt;
115 }
116
117 void withdraw(struct customer list[], int s, int number, int amt)
118 {
119     int i = search(list, s, number);
120     if (i == -1)
121         printf("Record not found\n");
122     else if (list[i].balance < amt)
123         printf("Insufficient balance\n");
124     else
125         list[i].balance -= amt;
126 }
```

Output

```
Press 0 to exit
1
A/c No Name Balance
101 Krish 1000000
102 Mithilesh 1
Press 1 to display all records.
Press 2 to withdraw money.
Press 3 to deposit money.
Press 4 to search a customer.
Press 0 to exit
3
Enter account number : 101
Enter amount to deposit : 1000000
Press 1 to display all records.
Press 2 to withdraw money.
Press 3 to deposit money.
Press 4 to search a customer.
Press 0 to exit
1
A/c No Name Balance
101 Krish 2000000
102 Mithilesh 1
Press 1 to display all records.
Press 2 to withdraw money.
Press 3 to deposit money.
Press 4 to search a customer.
Press 0 to exit
4
```

Windows taskbar at the bottom shows the search bar, taskbar icons, system tray with weather (30°C, Light rain), and date/time (22:45, 18-06-2022).