

## Untitled-1

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4
5  #define MAX_ACCOUNTS 100
6
7  typedef struct {
8      int account_number;
9      char name[50];
10     float balance;
11 } Account;
12
13 Account accounts[MAX_ACCOUNTS];
14 int account_count = 0;
15
16 void create_account() {
17     if (account_count >= MAX_ACCOUNTS) {
18         printf("Maximum number of accounts reached.\n");
19         return;
20     }
21
22     Account new_account;
23     new_account.account_number = account_count + 1; // Simple account number generation
24     printf("Enter account holder's name: ");
25     scanf("%s", new_account.name);
26     new_account.balance = 0.0;
27
28     accounts[account_count] = new_account;
29     account_count++;
30
31     printf("Account created successfully! Account Number: %d\n", new_account.account_number);
32 }
33
34 void deposit_money() {
35     int account_number;
36     float amount;
37
38     printf("Enter account number: ");
39     scanf("%d", &account_number);
40     printf("Enter amount to deposit: ");
41     scanf("%f", &amount);
42
43     for (int i = 0; i < account_count; i++) {
44         if (accounts[i].account_number == account_number) {
45             accounts[i].balance += amount;
46             printf("Deposited $%.2f to account %d. New balance: $%.2f\n", amount,
47 account_number, accounts[i].balance);
48         }
49     }
50 }
```

```
48     }
49 }
50
51 printf("Account not found.\n");
52 }
53
54 void withdraw_money() {
55     int account_number;
56     float amount;
57
58     printf("Enter account number: ");
59     scanf("%d", &account_number);
60     printf("Enter amount to withdraw: ");
61     scanf("%f", &amount);
62
63     for (int i = 0; i < account_count; i++) {
64         if (accounts[i].account_number == account_number) {
65             if (accounts[i].balance >= amount) {
66                 accounts[i].balance -= amount;
67                 printf("Withdrew $%.2f from account %d. New balance: $%.2f\n", amount,
account_number, accounts[i].balance);
68                 return;
69             } else {
70                 printf("Insufficient funds.\n");
71                 return;
72             }
73         }
74     }
75
76     printf("Account not found.\n");
77 }
78
79 void check_balance() {
80     int account_number;
81
82     printf("Enter account number: ");
83     scanf("%d", &account_number);
84
85     for (int i = 0; i < account_count; i++) {
86         if (accounts[i].account_number == account_number) {
87             printf("Account Number: %d\n", account_number);
88             printf("Account Holder: %s\n", accounts[i].name);
89             printf("Balance: $%.2f\n", accounts[i].balance);
90             return;
91         }
92     }
93
94     printf("Account not found.\n");
95 }
96
```

```
97 void display_accounts() {
98     if (account_count == 0) {
99         printf("No accounts to display.\n");
100         return;
101     }
102
103     for (int i = 0; i < account_count; i++) {
104         printf("Account Number: %d\n", accounts[i].account_number);
105         printf("Account Holder: %s\n", accounts[i].name);
106         printf("Balance: $%.2f\n", accounts[i].balance);
107         printf("-----\n");
108     }
109 }
110
111 int main() {
112     int choice;
113
114     while (1) {
115         printf("Banking Application Menu:\n");
116         printf("1. Create Account\n");
117         printf("2. Deposit Money\n");
118         printf("3. Withdraw Money\n");
119         printf("4. Check Balance\n");
120         printf("5. Display All Accounts\n");
121         printf("6. Exit\n");
122         printf("Enter your choice: ");
123         scanf("%d", &choice);
124
125         switch (choice) {
126             case 1:
127                 create_account();
128                 break;
129             case 2:
130                 deposit_money();
131                 break;
132             case 3:
133                 withdraw_money();
134                 break;
135             case 4:
136                 check_balance();
137                 break;
138             case 5:
139                 display_accounts();
140                 break;
141             case 6:
142                 printf("Exiting the application.\n");
143                 exit(0);
144             default:
145                 printf("Invalid choice. Please try again.\n");
146         }
```

```
147     }  
148  
149     return 0;  
150 }  
151
```