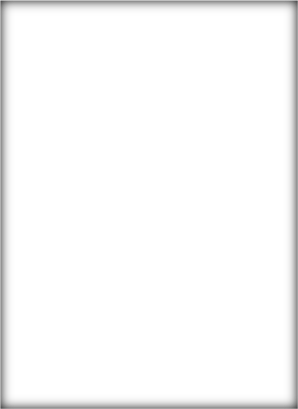
**FATIMA JINNAH WOMEN UNIVERSITY**



**Department of Computer Science**

**Course: Programming Fundamentals**

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**Roll No: 2023-BCS-077**

**Section: BCS-1B**

**Project On Bank Management System**

**Source Code:**

#include <stdio.h> // printf(), scanf()

#include <ctime>

#include <stdlib.h>

char name[20];

int dip\_amt, with\_amt,trans\_amt, amt = 10000, acc\_no;

int count;

void menu() {

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*MAIN MENU\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("1. Deposit money\n");

printf("2. Withdraw money\n");

printf("3. Transfer money\n");

printf("4. Account details\n");

printf("5. Transaction details\n");

printf("6. Exit\n");

}

void deposit\_money() {

time\_t tm;

time(&tm);

FILE\* ptr;

fopen\_s(&ptr, "C:\\Users\\acera\\Desktop\\Account.txt", "a");

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*DEPOSITING MONEY\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

for (int i = 0; i < 50; i++) {

printf("-");

}

printf("\nEnter the amount you want to deposit: ");

scanf\_s("%d", &dip\_amt);

amt += dip\_amt;

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*MONEY DEPOSITED\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("Current balance: %d\n", amt);

fprintf(ptr, "Rs%d has been deposited to your account\n", dip\_amt);

char timeString[26];

if (ctime\_s(timeString, sizeof(timeString), &tm) == 0)

{

fprintf(ptr, "Date/Time of transaction : %s\n", timeString);

}

count++;

fclose(ptr);

printf("Press any key...\n");

getchar();

}

void withdraw\_money() {

time\_t tm;

time(&tm);

FILE\* ptr;

fopen\_s(&ptr, "C:\\Users\\acera\\Desktop\\Account.txt", "a");

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WITHDRAW MONEY\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("Enter the amount you want to withdraw:");

scanf\_s("%d", &with\_amt);

amt -= with\_amt;

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*MONEY WITHDRAWN\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("Current balance: %d\n", amt);

fprintf(ptr, "Rs%d has been withdrawn from your account\n", dip\_amt);

char timeString[26];

if (ctime\_s(timeString, sizeof(timeString), &tm) == 0)

{

fprintf(ptr, "Date/Time of transaction : %s\n", timeString);

}

count++;

fclose(ptr);

printf("Press any key...\n");

getchar();

}

void transfer\_money() {

time\_t tm;

time(&tm);

FILE\* ptr;

fopen\_s(&ptr, "C:\\Users\\acera\\Desktop\\Account.txt", "a");

int ac;

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*TRANSFERRING MONEY\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("Enter the amount you want to transfer: ");

scanf\_s("%d", &trans\_amt);

printf("Enter the account number in which you want to transfer: ");

scanf\_s("%d", &ac);

if (trans\_amt > amt) {

printf("You have insufficient balance.\n");

}

else {

amt -= trans\_amt;

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*MONEY TRANSFERRED\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("Current balance: %d\n", amt);

}

fprintf(ptr, "Rs%d has been transferred from your account to %d\n", dip\_amt,ac);

char timeString[26];

if (ctime\_s(timeString, sizeof(timeString), &tm) == 0)

{

fprintf(ptr, "Date/Time of transaction : %s\n", timeString);

}

count++;

fclose(ptr);

printf("Press any key...\n");

getchar();

}

void account\_details() {

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ACCOUNT DETAILS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

for (int i = 0; i < 50; i++) {

printf("-");

}

printf("\nName: %s", name);

printf("Account Number: %d\n", acc\_no);

printf("Total balance: %d\n\n", amt);

getchar();

printf("Press any key...\n");

}

void transaction\_details(){

FILE\* ptr;

fopen\_s(&ptr, "C:\\Users\\acera\\Desktop\\Account.txt", "r");

char c = fgetc(ptr);

if (c == EOF) {

printf("No recent transactions");

}

else {

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*TRANSACTION DETAILS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");

while (c != EOF) {

printf("%c", c);

c = fgetc(ptr);

}

}

printf("Press any key...");

getchar();

}

int main() {

printf("Enter your name: ");

fgets(name, sizeof(name), stdin);

printf("Enter your account number: ");

scanf\_s("%d", &acc\_no);

while (1) {

menu();

int choice;

printf("Enter your choice:");

scanf\_s("%d", &choice);

switch (choice) {

case 1:

deposit\_money();

break;

case 2:

withdraw\_money();

break;

case 3:

transfer\_money();

break;

case 4:

account\_details();

break;

case 5:

transaction\_details();

break;

case 6:

exit(0);

default:

printf("Invalid choice!!");

break;

}

}

return 0;

}

**Output Screenshots:**

