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MINI PROJECT ON ATM BANKING

ATM (Automated Teller Machine) uses software application for performing banking operations. This project is called as ATM Banking Project which is useful for **checking balance, view customer cash withdrawal, deposit of money**, etc.

At present banking process is becoming easier and customer are saving time for checking balance, withdraw money from any location using ATM machines, check recent transactions, etc.

In this project, I designed an ATM banking system for understanding operations that are involved in ATM software and added many features that are present in present software.

Coding:

```
#include <stdio.h>

#include <stdlib.h>

#include <stdbool.h>

#include <math.h>


//Functions

void login();

void mainMenu();

void checkBalance(float balance);

float moneyDeposit(float balance);

float moneyWithdraw(float balance);

void menuExit();

void errorMessage();
```

```
int main() //Main Code
{
    //Local Declarations
    int option;
    float balance = 15000.00;
    int choose;

    bool again = true;

    // insert code here...

    while (again) {
        mainMenu();

        printf("-----\n");
        printf("Your Selection:\t");
        scanf("%d", &option);

        switch (option) {
            case 1:
                system("CLS");
                checkBalance(balance);
                break;
            case 2:
                system("CLS");
                balance = moneyDeposit(balance);
                break;
```

```

case 3:
    system("CLS");
    balance = moneyWithdraw(balance);
    break;

case 4:
    system("CLS");
    menuExit();
    return 0;

default:
    errorMessage();
    break;
}

printf("-----\n");
printf("Would you like to do another transaction:\n");
printf("< 1 > Yes\n");
printf("< 2 > No\n");
scanf("%d", &choose);
system("CLS");
if (choose == 2) {
    again = false;
    menuExit();
}

}

return 0;

```

```

} //main code

//Functions

void mainMenu() {

    printf("*****Hello!*****\n");
    printf("*****Welcome to ATM Banking*****\n\n");
    printf("*****Please choose one of the options below*****\n\n");
    printf("< 1 > Check Balance\n");
    printf("< 2 > Deposit\n");
    printf("< 3 > Withdraw\n");
    printf("< 4 > Exit\n\n");

} //Main Menu

void checkBalance(float balance) {

    printf("You Choose to See your Balance\n");
    printf("\n\n****Your Available Balance is:  $%.2f\n\n", balance);

} //Check Balance

float moneyDeposit(float balance) {

    float deposit;

    printf("You choose to Deposit a money\n");
    printf("$$$$Your Balance is: $%.2f\n\n", balance);
    printf("*****Enter your amount to Deposit\n");
    scanf("%f", &deposit);

    balance += deposit;

    printf("\n****Your New Balance is:  $%.2f\n\n", balance);

```

```
return balance;
```

```
}//money deposit
```

```
float moneyWithdraw(float balance) {
```

```
    float withdraw;
```

```
    bool back = true;
```

```
    printf("You choose to Withdraw a money\n");
```

```
    printf("$$$$Your Balance is: $%.2f\n\n", balance);
```

```
    while (back) {
```

```
        printf("Enter your amount to withdraw:\n");
```

```
        scanf("%f", &withdraw);
```

```
        if (withdraw < balance) {
```

```
            back = false;
```

```
            balance -= withdraw;
```

```
            printf("\n$$$$Your withdrawing money is: $%.2f\n", withdraw);
```

```
            printf("*****Your New Balance is: $%.2f\n\n", balance);
```

```
        }
```

```
    else {
```

```
        printf("+++You don't have enough money+++ \n");
```

```
        printf("Please contact to your Bank Customer Services\n");
```

```
        printf("*****Your Balance is: $%.2f\n\n", balance);
```

```
}
```

```
}
```

```
return balance;
```

```
}//money withdraw
```

```
void menuExit() {
```

```
    printf("-----Take your receipt!!!-----\n");
```

```
    printf("-----Thank you for using ATM Banking Machine!!!-----\n");
```

```
}//exit menu
```

```
void errorMessage() {;
```

```
    printf("+++!!!You selected invalid number!!!+++\\n");
```

```
}//error message
```

Output:

```

✓ ✎ 📄
*****Hello!*****
*****Welcome to ATM Banking*****

****Please choose one of the options below****

< 1 >  Check Balance
< 2 >  Deposit
< 3 >  Withdraw
< 4 >  Exit

=====
Your Selection: 2
sh: 1: CLS: not found
You choose to Deposit a money
$$$$Your Balance is: $15000.00

****Enter your amount to Deposit
1350

****Your New Balance is:   $16350.00

=====
Would you like to do another transaction:
< 1 > Yes
< 2 > No
2
sh: 1: CLS: not found
-----Take your receipt!!!-----
-----Thank you for using ATM Banking Machine!!!-----

...Program finished with exit code 0
Press ENTER to exit console.

```

```

✓ ✎ 📄
< 1 >  Check Balance
< 2 >  Deposit
< 3 >  Withdraw
< 4 >  Exit

=====
Your Selection: 3
sh: 1: CLS: not found
You choose to Withdraw a money
$$$$Your Balance is: $15000.00

Enter your amount to withdraw:
1200

$$$$Your withdrawing money is:  $1200.00
****Your New Balance is:   $13800.00

=====
Would you like to do another transaction:
< 1 > Yes
< 2 > No
2
sh: 1: CLS: not found
-----Take your receipt!!!-----
-----Thank you for using ATM Banking Machine!!!-----

...Program finished with exit code 0
Press ENTER to exit console.

```