

MINI PROJECT ON DISPLAY OF ATM TRANSACTION

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This is a C program to display the ATM transaction.

Problem Description

This C Program performs ATM transaction. The types of ATM transaction are

- 1) Balance checking
- 2) Cash withdrawal
- 3) Cash deposition.

Problem Solution

1. Firstly initialize the ATM pin and amount with some random number.
2. Take the ATM pin as input.
3. If the input pin is equal to the initialized pin, then do the further operations.
4. Use switch statement to do the operations like Balance checking, Cash withdrawal, Cash deposition etc.
5. Use while loop to terminate or restart the process.

Program/Source Code

Here is source code of the C Program to display the ATM transaction. The program output is also shown below.

```
#include <stdio.h>

unsigned long amount = 1000, deposit, withdraw;
int choice, pin, k;
char transaction = 'y';

void main()
{
    while (pin != 1520)
    {
        printf("ENTER YOUR SECRET PIN NUMBER:");
        scanf("%d",&pin);
        if(pin != 1520)
```

```

printf("PLEASE ENTER VALID PASSWORD! \a\n");
}
do
{
printf("\n*****Welcome to XYZ Bank ATM Service*****\n");
printf("1. Check Balance\n");
printf("2. Withdraw Cash\n");
printf("3. Deposit Cash\n");
printf("4. Quit\n");
printf("*****\n\n");
printf("Enter your choice: ");
scanf("%d",&choice);
switch(choice)
{
case 1:
printf("\n YOUR BALANCE IS RS: %lu ", amount);
break;
case 2:
printf("\n ENTER THE AMOUNT TO WITHDRAW: ");
scanf("%lu",&withdraw);
if(withdraw % 100 != 0)
{
printf("\n PLEASE ENTER THE AMOUNT IN MULTIPLES OF 100");
}
else if(withdraw>(amount - 500))
{
printf("\n INSUFFICIENT BALANCE");
}
else
{
amount = amount - withdraw;
printf("\n\n PLEASE COLLECT CASH");
printf("\n YOUR CURRENT BALANCE IS %lu", amount);
}
break;
case 3:
printf("\n ENTER THE AMOUNT TO DEPOSIT");
scanf("%lu",&deposit);
amount = amount + deposit;
printf("YOUR BALANCE IS %lu",amount);
break;
case 4:

```

```

        printf("THANK YOU FOR USING XYZ BANK ATM");
        break;
    default:
        printf("\n INVALID CHOICE");
    }
    printf("\n\n DO U WISH TO HAVE ANOTHER TRANSACTION?(Y/N): \n");
    fflush(stdin);
    scanf("%c",&transaction);
    if(transaction == 'n' || transaction == 'N')
        k = 1;
    }
    while (!k);
    printf("\n\n THANKS FOR USING XYZ BANK ATM SERVICE");
}

```

Program Explanation

1. Initialize the variables pin, amount and transaction with 1520, 1000 and 'y' respectively.
2. Ask for the pin from user. If the input pin is equal to 1520, then allow for the further operations.
3. Use switch statement to do the operations like Check Balance, Withdraw Cash, Deposit Cash and Quit.
4. For Check Balance simply print the variable amount as output and exit.
5. For Withdraw Cash, first ask the amount to withdraw and store it in the variable withdraw.
6. If withdraw % 100 != 0, then ask user to enter the amount in multiplies of 100.
7. If withdraw amount is greater than (amount-500), then print the output as "INSUFFICIENT BALANCE".
8. Otherwise subtract the variable withdraw from variable amount, print the amount and exit.
9. For deposit operation, ask the user for amount and store it in the variable deposit.
10. Add the variable deposit to variable amount, print the amount and exit.
11. If quit, then finally ask the user if they wish to continue or not. Ask them to type y/n and store it in the variable transaction.
12. If variable transaction is y/Y, then continue the operation. Otherwise terminate the while loop by assigning 1 to variable k.

Runtime Test Cases

```

ENTER YOUR SECRET PIN NUMBER:1520
*****Welcome to ATM Service*****
1. Check Balance
2. Withdraw Cash
3. Deposit Cash

```

4. Quit
*****?*****?*

Enter your choice: 1

YOUR BALANCE IN Rs : 1000

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
*****Welcome to ATM Service*****

1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit

*****?*****?*

Enter your choice: 2

ENTER THE AMOUNT TO WITHDRAW: 200

PLEASE COLLECT CASH
YOUR CURRENT BALANCE IS 800

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
*****Welcome to ATM Service*****

1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit

*****?*****?*

Enter your choice: 3

ENTER THE AMOUNT TO DEPOSIT 5000
YOUR BALANCE IS 5800

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
*****Welcome to ATM Service*****

1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit

*****?*****?*

Enter your choice: 1

YOUR BALANCE IN Rs : 5800

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
*****Welcome to ATM Service*****

1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit

*****?*****?

Enter your choice: 4

THANK U USING ATM

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):

*****Welcome to ATM Service*****

1. Check Balance

2. Withdraw Cash

3. Deposit Cash

4. Quit

*****?*****?

Enter your choice: 4

THANK U USING ATM

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):

*****Welcome to ATM Service*****

1. Check Balance

2. Withdraw Cash

3. Deposit Cash

4. Quit

*****?*****?

Enter your choice: n

THANK U USING ATM

DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):

THANKS FOR USING OUT ATM SERVICE.

THANK YOU