

CSE-2006 Microprocessor and Interfacing

Slot: L35+L36

BANK MANAGEMENT SYSTEM

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ABSTRACT

Bank Management System is an application for keeping a person's record in a bank and for solving financial applications of a customer in a banking environment in order to nurture the needs of an end banking user by performing tasks

This is a Simple yet complex management system that we will make using the software EMU8086 and Assembly language programming. We will look at the following functions and understand the working of the same

- Create / Remove / Update account
- Deposit / Withdraw money
- Print account details
- Menu system
- Dynamic pin system
- Error detection

The main objective of bank management is to build an organic and optimal interaction system between the elements of banking mechanisms with a view to profit. The Bank Management System will also provide an improved design methodology, which envisages the future expansion, and modification, which is necessary for a core sector like banking.

INTRODUCTION

The bank management system is considered to be the most important thing in the economic world.

It allows the customers to complete basic banking transactions by sitting at their homes or offices through PC or laptop. The system provides the access to the customer to create an account, deposit, withdraw the cash from their account, you can also go through the accounts which are already present. The customers can access the bank website for viewing their account details and complete the transactions on account as per their requirements and wishes. It is designed to handle all the primary information required to calculate monthly statements of customer accounts which include monthly statements of any month. A separate database is maintained to safeguard all the details required in order to have correct statement calculation and statement generation. This project intends to introduce more user-friendliness in various activities such as record updating, maintenance, and searching. The searching of records has been made quite simple as all the details of the customer can be obtained by simply keying in the identification or account number of that customer. Similarly, record maintenance and updating can also be accomplished by using the account number with all the details being automatically generated. These details are also being promptly automatically updated in the master Me thus keeping the record absolutely up-to-date.

Today's banking is no longer confined to only branches, E-banking helps banking transactions by customers round the clock globally.

LITERATURE SURVEY

S. No	Paper Title	Name of the Conference/Journal, Year	Technology Used
1.	A Practice Approach to Teach Computer Organization and Interface Technology	2021 2nd Information Communication Technologies Conference (ICTC)	This paper proposes a new practice approach to train the students which can be divided into three aspects: 1) assembly language programming; 2) prototype computer; 3) embedded computer and its applications.
2.	Enriched Blended Learning through Virtual Experience in Microprocessors and Microcontrollers Course	Volume 34, Special Issue, ICTIEE 2021, January 2021	This paper highlights the effectiveness of using open source emulating environments like EMU8086 for providing a virtual laboratory experience. This virtual environment provides a complete visualization of the

			internal functionality of the microprocessor architecture.
3.	Design of Embedded Based Dual Identification ATM Card Security System	2019 9th International Conference on Emerging Trends in Engineering and Technology - Signal and Information Processing (ICETET-SIP-19)	This paper aims to prevent the crime related to ATM card frauds and secure transactions. In this paper, two options are included like One Time Password (OTP) and Fingerprint detection for a successful transaction. The user can use any of the two options mentioned above for ATM transactions
4.	The Effect of Information Technology Management on Customer Satisfaction in E-Bank Services	THE 3rd INTERNATIONAL CONFERENCE ON ECONOMICS AND BUSINESS 2021	This research is a form of replication that will use the subject of e-banking user bank customers which aims to determine the factors that affect customer satisfaction of e-banking service users. This research uses quantitative methods with multiple linear regression analysis.
5.	Core Banking Technology and Its	Journal of Advanced Research	Acronym "Core" represents the

	Top 6 Implementation Challenges	in Operational and Marketing Management Volume 4, Issue 1 - 2021	Centralized Online Real-time Exchange. It is an operating system or software that processes financial transactions between different branches of a bank. It is a cost and time-efficient mode of banking that enables customers to perform basic banking operations without having to stop by the bank.
6.	The Role of Emerging Banking Technologies for Risk Management and Mitigation to Reduce Non-Performing Assets and Bank Frauds in the Indian Banking System	International Journal of e-Collaboration (IJeC), 2021	The paper focuses on how the newly emerging digital banking tools can be applied with improved skills of lending/risk managers to control and mitigate risk to resolve the issue of NPA and frauds through the support of Advance technology, Data Analytics, and MIS Reports.

DRAWBACKS OF EXISTING WORKS

• Technology and Service Interruptions

Anytime we use computers or internet service, we are at the mercy of the system's stability and efficiency. Our ability to access accounts online will naturally be affected if your internet service is running slowly or completely out for a period of time. Similarly, if the bank's servers go down or are temporarily unavailable due to scheduled site maintenance, you won't be able to gain online or mobile access to your banking information.

Security and Identity Theft Concerns

In general, online banking sites and mobile apps are designed to be secure and banks are continually putting updated security protocols in place. However, no system is completely foolproof and accounts can be hacked, resulting in identity theft via stolen login credentials.

• Convenient but Not Always Faster

While it may take very little time to deposit a check via a bank's mobile app, you still need to wait for access to your money.

Lack of Personal Banker Relationship

For the most part you may be able to handle your general banking needs by yourself. Yet when problems arise if you don't have a personal relationship with a banker, it might be more difficult to get your issues resolved

• A Limited Scope of Services

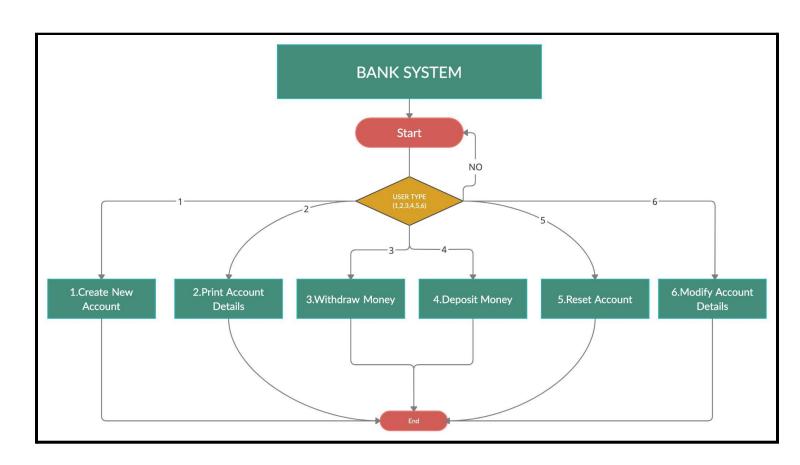
Although you can do quite a bit with an online bank account, such as make deposits, check balances and pay bills, there are limitations to the kinds of services you can access.

PROPOSED WORK

We wish to provide an optimal solution for the current banking system's drawbacks by introducing EMU8086 as the interface. EMU8086 will help in overcoming the drawbacks of the system because of its following advantages:

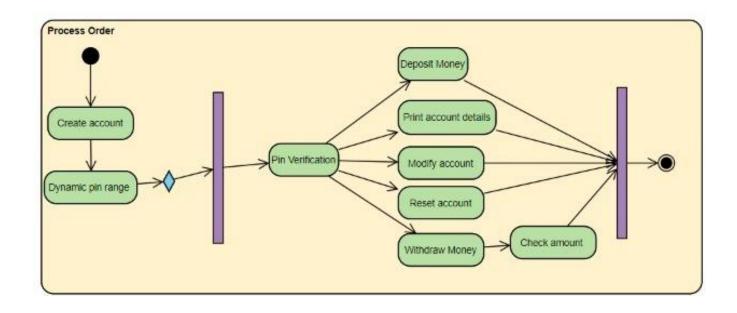
- The code can be reused and the instructions need not be written repeatedly.
- The storage space is less since it is a sub program.
- Developers can re-develop the code with ease since programming has become simple for them and the new developers can change the existing code.

FLOW CHART



Flow chart link:- https://app.creately.com/diagram/UGav8cmiWAz/edit

ACTIVITY DIAGRAM



IMPLEMENTATION

- ;1. Create Account
- ;2. Deposit Money
- ;3. Widthdraw Money
- ;4. Print Account Details
- ;5. Modify Account
- ;6. Reset Account
- ;7. Currerncy
- ;7. Dynamic Pin Range
- ;8. Pin Verification
- ;9. Checks if account is created before performing functions
- ;10. When withdrawing, checks whether if u have enough money in account

.model small .stack 100h .data

```
dmsg1 db'
        | | | | | | / | | | / | | | | | | /|$'
dmsg2 db '
dmsg3 db'
        dmsg4 db '
dmsg5 db ' |_|| || \| | \ _| / __| | |$'
dmsg6 db '
op3mmsg1 db'
op3mmsg4 db ' | / \ | | | | | | \_ /_\ | / \ |$'
op3mmsg5 db ' |/ \| | | | __/ | \ / \|/ \|$'
op3mmsg6 db '$'
op5mmsg1 db '
op5mmsg3 db ' | \ \ / / || || || || || \ \ / /$'
op5mmsg4 db ' | |\ \ / / | || || || | | | / \ /$'
op5mmsg6 db ' ||
            || | / | || | | |$'
op2mmsg1 db '_
op2mmsg3 db ' | ||_ | /_\ | |$'
op2mmsg4 db ' | || | / \ | |$'
op2mmsg5 db ' | | | | / \ | | $'
op4mmsg1 db '
op4mmsg2 db ' | _ \ | _ || _ || || || || _ _ ||$'
op4mmsg6 db ' |_/ | _||| |_||_|| ||$'
op1mmsg1 db'
op1mmsg2 db '
op1mmsg3 db ' | _| | | | | / \
op1mmsg4 db ' || | | || //\\ | _||_|$'
op1mmsg5 db ' || ||\\ ||_ // \\ || ||_$'
op1mmsg6 db ' | |_ || \| || // \\ || |__|$'
op1mmsg7 db ' | |$'
```

```
op7mmsg3 db ' | | | | | | | | | | \\$'
op7mmsg5 db ' |_ |_| | \ | \ |_ | \| || /$'
opmsg1 db '1. Create new Account$'
opmsg2 db '2. Print Account Details$'
opmsg3 db '3. Withdraw Money $'
opmsg4 db '4. Deposit Money $'
opmsg5 db '5. Reset Account $'
opmsg6 db '6. Modify Account Details$'
opmsg7 db '7. Currency$'
opmsg8 db 'Press Enter To Return to Main Menu $'
imsg db 'How can we help you today?: $'
inputCode db?
;Account details
accountName db 100 dup('$')
accountPIN db 100 dup('$')
accountPINcount dw 0
                        This keeps track how many digit a pin is
totalAmount dw 0
inputAmountOption db?
Option 1 (Create Account) Messages
op1msg1 db '1. Enter Your Account Name: $'
op1msg2 db '2. Enter Your Account Pin: $'
op1msg3 db 'Congratulations!!! You have created New Account Successfully!!! $'
;Option 2 < Print details > Messages
op2msg1 db 'Account Name: $'
op2msg2 db 'Account PIN: $'
op2msg3 db 'No such existing account!$'
op2msg4 db 'Your Account Balance is: $'
op2msg5 db '0 $'
;Option 4 <Money> Messages
op4msg1 db '1. 1000$'
op4msg2 db '2. 2000$'
op4msg3 db '3. 5000$'
op4msg4 db '4. 10000$'
op4msg5 db 'Enter Code: $'
op4msg6 db 'Amount Exceeded!$'
;Option 5 < Reset > Messages
```

```
op5msg1 db 'Account Has been reset successfully$'
  ;Option 6 < Modify Account > Messages
  op6msg0 db 'Account Details Successfully Changed !$'
  op6msg1 1 db '1. New Account Name (old: $'
  op6msg1 2 db'):$'
  op6msg2 1 db '2. New Account Pin (old: $'
  op6msg2 2 db '): $'
  ;Option 7<Currency Converter> Messages
  op7msg0 db 'Cuurencies available for transaction:$'
  op7msg1 db '1. US Dollar$'
  op7msg2 db '2. Australian Dollar$'
  op7msg3 db '3. UK Pound$'
  op7msg4 db '4. UAE Dirham$'
  op7msg5 db '5. Indian Rupee$'
  op7msg6 db 'Enter the currency you wish to proceed with: $'
  ;PIN Protection
  pinop_msg1 db 'Enter PIN: $'
  pinop msg2 db 'Account NOT created ... $'
.code
              UTILS
:Enter to Continue
proc etc
 etcin:
   mov ah, 1
   int 21h
   cmp al,13
   je mainloop
   jmp etcin
 ret
etc endp
;This checks whether the account has been created or not using the pin Count
checkAccountCreated proc
cmp accountPINcount,0
je accountNotCreated
ret
 accountNotCreated:
  call clearScreen
```

```
printString pinop_msg2
  call etc
checkAccountCreated endp
just mov number to ax and call this proc
printNumber PROC
  ;initilize count
  mov cx,0
  mov dx,0
  label1:
     ; if ax is zero
     cmp ax,0
    je print1
     ;initilize bx to 10
     mov bx,10
     ; extract the last digit
     div bx
     ;push it in the stack
     push dx
     ;increment the count
     inc cx
     ;set dx to 0
     xor dx,dx
    jmp label1
  print1:
     ;check if count
     ;is greater than zero
     cmp cx,0
    je exitprint
     ;pop the top of stack
     pop dx
     ;add 48 so that it
     ;represents the ASCII
     ;value of digits
     add dx,48
     ;interuppt to print a
     ;character
     mov ah,02h
     int 21h
```

```
;decrease the count
     dec cx
    jmp print1
exitprint:
ret
printNumber ENDP
clearScreen proc near
  call newLine
  call newLine
  ret
clearScreen endp
newLine proc near
  mov ah,2
  mov dl,10
  int 21h
  mov dl,13
  int 21h
  ret
newLine endp
macro printString str
 mov ah,9
 lea dx,str
 int 21h
endm
;Ask for user pin here
getPinInput proc
 call clearScreen
 printString pinop_msg1
 mov si,offset accountPIN
 mov ex,accountPINcount
                            ;Search n amount of times the pin Count
 getinput:
  mov ah,7
  int 21h
  cmp al,[si]
  mov dl,'*'
  mov ah,2
  int 21h
```

```
jne mainloop
  inc si
 loop getinput
 ret
getPinInput endp
              MENU SYSTEM
DisplayMenu proc near
  printString dmsg1
  call newLine
  printString dmsg2
  call newLine
  printString dmsg3
  call newLine
  printString dmsg4
  call newLine
  printString dmsg5
  call newLine
  printString dmsg6
  call newLine
  call newLine
  printString opmsg1
  call newLine
  printString opmsg2
  call newLine
  printString opmsg3
  call newLine
  printString opmsg4
  call newLine
  printString opmsg5
  call newLine
  printString opmsg6
  call newLine
  printString opmsg7
  call newLine
  ret
DisplayMenu endp
```

GetInputMenuSystem proc near call newLine

```
printString imsg
  mov ah,1
  int 21h
  mov inputCode,al
  ret
GetInputMenuSystem endp
OPTION 1 => CREATE ACCOUNT
macro ISop11 str
  mov si,offset str
  input:
    mov ah,1
    int 21h
    cmp al,13
    je labelop1_1
    mov [si],al
    inc si
    jmp input
  exitMac:
    ret
endm
macro ISop12 str
  mov si,offset str
  input2:
    mov ah,1
    int 21h
    cmp al,13
    je labelop1_2
    inc accountPINcount
    mov [si],al
    inc si
    jmp input2
  exitMac2:
    ret
endm
proc etcop1
 etcop1in:
  mov ah,1
```

```
int 21h
   cmp al,13
   je mainloop
   jmp etcop1in
 ret
etcop1 endp
op1 proc
  call clearScreen
  printString op1mmsg1
  call newLine
  printString op1mmsg2
  call newLine
  printString op1mmsg3
  call newLine
  printString op1mmsg4
  call newLine
  printString op1mmsg5
  call newLine
  printString op1mmsg6
  call newLine
  printString op1mmsg7
  call newLine
  call newLine
  call newLine
  printString op1msg1
  ISop11 accountName
  labelop1 1:
   call newLine
   printString op1msg2
   ISop12 accountPIN
  labelop1_2:
    call newLine
    call newLine
    printString op1msg3
    call etcop1
  ret
op1 endp
         OPTION 1 => PRINT DETAILS
```

```
proc etcop2
 call newLine
 printString opmsg8
 etcop2in:
   mov ah,1
   int 21h
   cmp al,13
   je mainloop
   jmp etcop2in
 ret
etcop2 endp
op2 proc
 call checkAccountCreated ;check whether the account has been created or not
 call getPinInput ;gets the pin input for verification
 call clearScreen
 printString op2mmsg1
 call newLine
 printString op2mmsg2
 call newLine
 printString op2mmsg3
 call newLine
 printString op2mmsg4
 call newLine
 printString op2mmsg5
 call newLine
 call newLine
 call newLine
 printString op2msg1
 printString accountName
 call newLine
 printString op2msg2
 printString accountPIN
 call newLine
 printString op2msg4
 mov ax,totalAmount
 cmp ax,0
 je noMoneyError
 call printNumber
 call newLine
```

```
call etcop2
noMoneyError:
  printString op2msg5
  call newLine
  call etcop2
ret
op2 endp
        OPTION 3 => WIDTHDRAW MONEY
......
op3 proc
call checkAccountCreated ; check whether the account has been created or not
call getPinInput ;gets the pin input
 call clearScreen
printString op3mmsg1
call newLine
printString op3mmsg2
call newLine
printString op3mmsg3
call newLine
printString op3mmsg4
call newLine
printString op3mmsg5
call newLine
printString op3mmsg6
call newLine
 call newLine
 call newLine
printString op4msg1
call newLine
printString op4msg2
call newLine
printString op4msg3
call newLine
printString op4msg4
call newLine
```

call inputAmountCode

```
cmp inputAmountOption,'1'
je wcop1
cmp inputAmountOption,'2'
je wcop2
cmp inputAmountOption,'3'
je wcop3
cmp inputAmountOption,'4'
je wcop4
;check if widraw amount <= totalAmount in acc
wcop1:
 mov bx,totalAmount
 cmp bx,1000
 jl nowaybro
 sub totalAmount,1000
 jmp mainloop
wcop2:
 mov bx,totalAmount
 cmp bx,2000
 jl nowaybro
 sub totalAmount,2000
 jmp mainloop
wcop3:
 mov bx,totalAmount
 cmp bx,5000
 jl nowaybro
 sub totalAmount,5000
 jmp mainloop
wcop4:
 mov bx,totalAmount
 cmp bx,10000
 il nowaybro
 sub totalAmount,10000
 jmp mainloop
;error message for widthdrawing too much
nowaybro:
 call newLine
 call newLine
 printString op4msg6
 call etcop4
```

```
op3 endp
OPTION 4 => DEPOSIT MONEY
proc etcop4
 call newLine
 ;printString opmsg8
 etcop4in:
   mov ah,1
   int 21h
   cmp al,13
   je mainloop
   jmp etcop4in
 ret
etcop4 endp
proc inputAmountCode
call newLine
printString op4msg5
mov ah,1
int 21h
mov inputAmountOption,al
inputAmountCode endp
op4 proc
call checkAccountCreated ;check whether the account has been created or not
call getPinInput ;gets the pin input
call clearScreen
printString op4mmsg1
call newLine
printString op4mmsg2
call newLine
printString op4mmsg3
call newLine
printString op4mmsg4
call newLine
printString op4mmsg5
call newLine
printString op4mmsg6
call newLine
 call newLine
 call newLine
```

```
printString op4msg1
call newLine
printString op4msg2
call newLine
printString op4msg3
call newLine
printString op4msg4
call newLine
call inputAmountCode
cmp inputAmountOption,'1'
je dcop1
cmp inputAmountOption,'2'
je dcop2
cmp inputAmountOption,'3'
je dcop3
cmp inputAmountOption,'4'
je dcop4
 dcop1:
  add totalAmount,1000
 jmp mainloop
 dcop2:
  add totalAmount,2000
 jmp mainloop
 dcop3:
  add totalAmount,5000
  jmp mainloop
 dcop4:
  add totalAmount,10000
  jmp mainloop
ret
op4 endp
        OPTION 5 => RESET ACCOUNT
proc etcop5
```

call newLine

```
;printString opmsg8
 etcop5in:
   mov ah,1
   int 21h
   cmp al,13
   je mainloop
   jmp etcop5in
 ret
etcop5 endp
op5 proc
 call checkAccountCreated ; check whether the account has been created or not
 call getPinInput ;gets the pin input
 ;Do the rest of the work .. display the data
 call clearScreen
 mov si,offset accountName
 mov cx,30
 11:
  mov [si],''
  inc si
 loop 11
 mov cx,30
 mov si,offset accountPIN
 12:
  mov [si],' '
  inc si
 loop 12
 mov totalAmount,0
 mov accountPINcount,0 ;reset pin count
 printString op5msg1
 call etcop5
 ret
op5 endp
         OPTION 6 => MODIFY ACCOUNT DETAILS
proc etcop6
 call newLine
 ;printString opmsg8
```

```
etcop6in:
   mov ah,1
   int 21h
   cmp al,13
   je mainloop
   jmp etcop6in
 ret
etcop6 endp
macro ISop6 str
mov si,offset str
  ISop6input:
    mov ah,1
    int 21h
    cmp al,13
    je labelop6 1
    mov [si],al
    inc si
    jmp ISop6input
endm
macro ISop6_2 str
mov si,offset str
mov accountPINcount,0 ;reset pin count
  ISop6_2input:
    mov ah,1
    int 21h
    cmp al,13
    je labelop6 2
    inc accountPINcount; increment pin account again
    mov [si],al
    inc si
    jmp ISop6_2input
endm
op6 proc
 call checkAccountCreated ;check whether the account has been created or not
 call getPinInput ;gets the pin
 call clearScreen
 printString op5mmsg1
 call newLine
 printString op5mmsg2
 call newLine
 printString op5mmsg3
 call newLine
 printString op5mmsg4
 call newLine
```

```
printString op5mmsg5
 call newLine
 printString op5mmsg6
 call newLine
 call newLine
 call newLine
 ;;account name
 printString op6msg1_1
 printString accountName
 printString op6msg1 2
 ISop6 accountName ;input accountName
 labelop6_1:
  call newLine
  printString op6msg2 1
  printString accountPIN
  printString op6msg2_2
  ISop6_2 accountPIN
 labelop6_2:
  ;Finished MSG
  call newLine
  call newLine
  printString op6msg0
  call etcop6
 ret
op6 endp
                 CURRENCY
proc etcop7
 call newLine
 ;printString opmsg8
 etcop7in:
   mov ah,1
   int 21h
   cmp al,13
   je mainloop
   jmp etcop7in
```

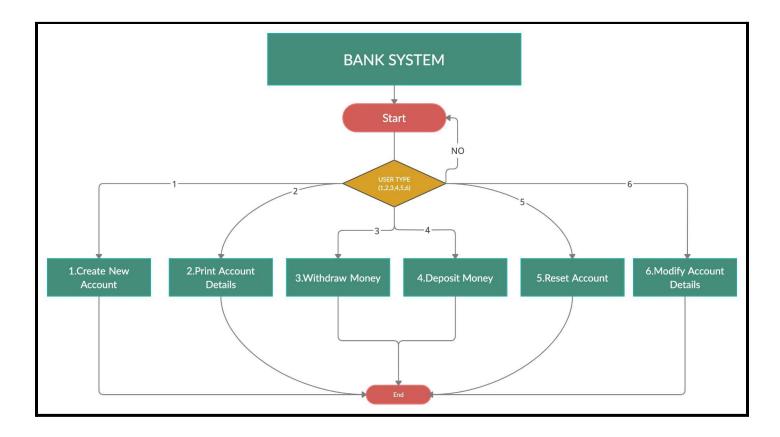
```
ret
etcop7 endp
proc inputCurrency
 call newLine
 mov ah,1
 int 21h
 mov inputAmountOption,al
inputCurrency endp
op7 proc
 call checkAccountCreated ; check whether the account has been created or not
 call getPinInput ;gets the pin input
 call clearScreen
 printString op7mmsg1
 call newLine
 printString op7mmsg2
 call newLine
 printString op7mmsg3
 call newLine
 printString op7mmsg4
 call newLine
 printString op7mmsg5
 call newLine
 call newLine
 call newLine
 printString op7msg0
 call newLine
 printString op7msg1
 call newLine
 printString op7msg2
 call newLine
 printString op7msg3
 call newLine
 printString op7msg4
 call newLine
 printString op7msg5
 call newLine
 printString op7msg6
 call newLine
 call newLine
 call inputCurrency
```

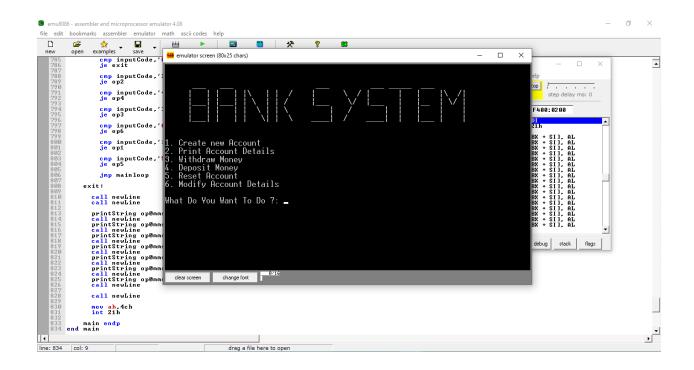
cmp inputAmountOption,'1'

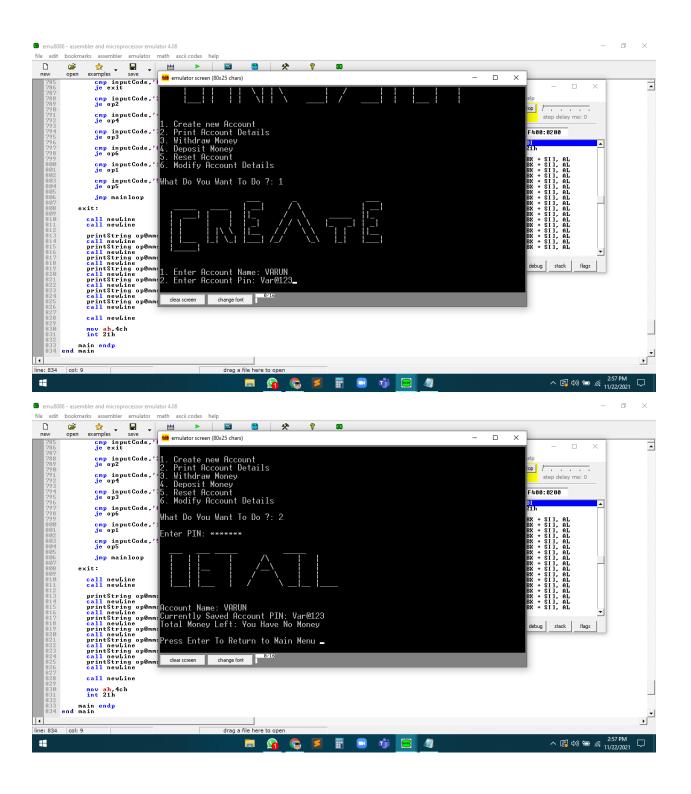
```
je ccop1
cmp inputAmountOption,'2'
je ccop2
cmp inputAmountOption,'3'
je ccop3
cmp inputAmountOption,'4'
je ccop4
cmp inputAmountOption,'5'
je ccop5
ccop1:
  imul totalAmount,75
 jmp mainloop
 ccop2:
  imul totalAmount,54
 jmp mainloop
 ccop3:
  imul totalAmount,100
 jmp mainloop
 ccop4:
  imul totalAmount,20
 jmp mainloop
 ccop5:
  imul totalAmount,1
 jmp mainloop
ret
op7 endp
         ENTRY POINT
Main proc
  mov ax,@data
  mov ds,ax
  mainloop:
    call clearScreen
```

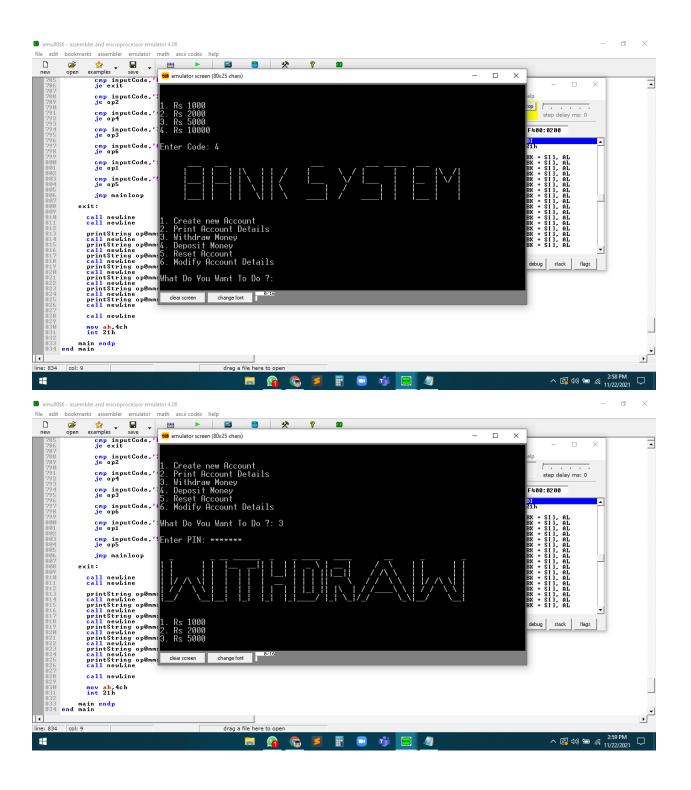
```
call DisplayMenu
    call GetInputMenuSystem
    cmp inputCode,'0'
    je exit
    cmp inputCode,'2'
    je op2
    cmp inputCode,'4'
    je op4
    cmp inputCode,'3'
    je op3
    cmp inputCode,'6'
    je op6
    cmp inputCode,'1'
    je op1
    cmp inputCode,'5'
    je op5
    cmp inputCode,'7'
    je op7
    jmp mainloop
  exit:
   call newLine
   call newLine
   call newLine
   mov ah,4ch
   int 21h
  main endp
end main
```

RESULTS

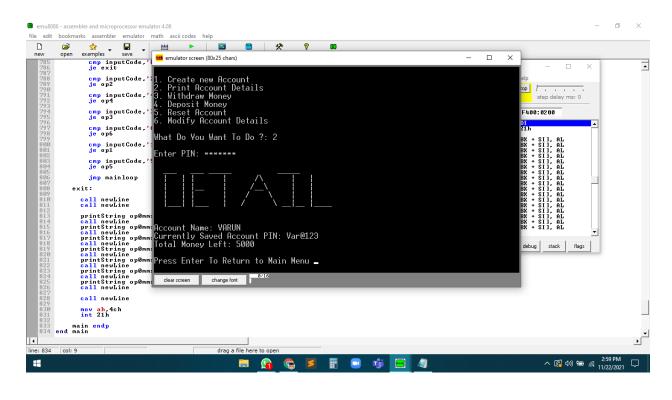


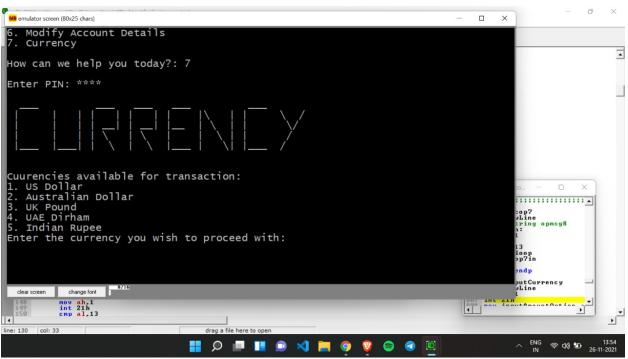






After Withdrawing Rs 5000 My Account Details:-





Thus, We have successfully completed the implementation of the Bank system using emu8086.

CONCLUSION

With regard to our busy lives, online banking comes in as a boon to us. And our research has made us realize that there are quite a few benefits of doing online banking:

- 1. You don't need to wait in line.
- 2. You don't have to worry about the bank's hours and plan your day according to the bank closing time.
- 3. You can check your balance anywhere and wherever, not just when you get a statement.
- 4. It is fast, secure, convenient, and free.
- 5. It is quite simple and quick
- 6. The online banking system has Improved data security which restricts unauthorized access.

This assignment is evolved to nurture the wishes of a consumer in a banking region with the aid of embedding all of the duties of transactions taking place in a financial institution. Future model of this assignment will nonetheless be an awful lot more suitable than the present day model. Writing and depositing exams are possibly the most essential approaches to transport cash inside and out of a bank account, however improvements in the era have delivered ATM and debit card transactions. All banks have policies about how lengthy it takes to get right of entry to your deposits, what number of debit card transactions you are allowed in a day, and what sort of coins you may withdraw from an ATM. Access to the stability for your bank account also can be restricted with the aid of using companies that vicinity holds for your funds. Banks are supplying net banking offerings additionally in order that the clients may be attracted. By asking the financial institution employees we got here to realize that most of the net financial institution account holders are teenagers and enterprise men. Online banking is a revolutionary device that is rapidly turning into a necessity. It is a successful strategic weapon for banks to stay worthwhile in a risky and aggressive market of today. If right schooling need to receive to consumer with the aid of using the financial institution employs to open an account can be useful secondly the internet site need to be made friendlier from in which the primary time clients can

without delay make and get right of entry to their accounts. Thus the Bank Management System it's miles evolved and finished successfully.

In result, we have thoroughly analyzed and studied the Banking management system and succeeded in implementing the banking features via emu8086.

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