

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is light green, both with a slight 3D effect.

# Bank management system using 8086

Group No. - 7

# Team Members

NAME	REG NO
Srishti V	19BCE0061
Deeksha Sriya Baddula	19BCE2420
Aviral Goyal	19BCE0883
K. Arjun Rao	19BCE2401

# Aim (Objective) of the project

Bank management system can be considered as one of the most important things in the economic world. Nowadays the banking sector is a common **need** in everyday life. So our **objective** is to provide an easier alternative to this problem through 8086 the **outcome** is that we will be able to manage accounts more efficiently. The **Advantage** is that 8086 is a very easy to understand language and is very robust. The people who have accounts in the bank and the bank people are the **beneficiaries**. **Societal impacts** are huge as a better and efficient system will yield better performance and hence will lead to more people getting their economic wishes fulfilled.

# Literature Survey

S. No	Paper Title	Name of the Conference/Journal, Year	Methodology
1	Managing the implementation of banking systems for repeatable success	Published in: PICMET '08 - 2008 Portland International Conference on Management of Engineering & Technology	ASAP (Accelerated SAP implementation). For the purpose of this accelerated implementation, ASAP presents a comprehensive, integrated set of activities to guide the project team through the essential parts of a SAP implementation.
2	Banking and Management Information System Automation	Part of special issue: 13th World Congress of IFAC, 1996, San Francisco USA, 30 June - 5 July	This paper introduces a rigorous approach, derived from GNOME (Ehrich et al., 1993; Saake et al., 1995), addressing, among other things, nonnative and nonnonnative behaviour, inheritance and composition and decomposition.
3	Online Banking : Benefits and Related Issues	IRACST – International Journal of Commerce, Business and Management (IJCMB), ISSN: 2319–2828 Vol. 3, No. 5, October 2014	The paper is about the benefits of Internet banking and the challenges in Online banking.

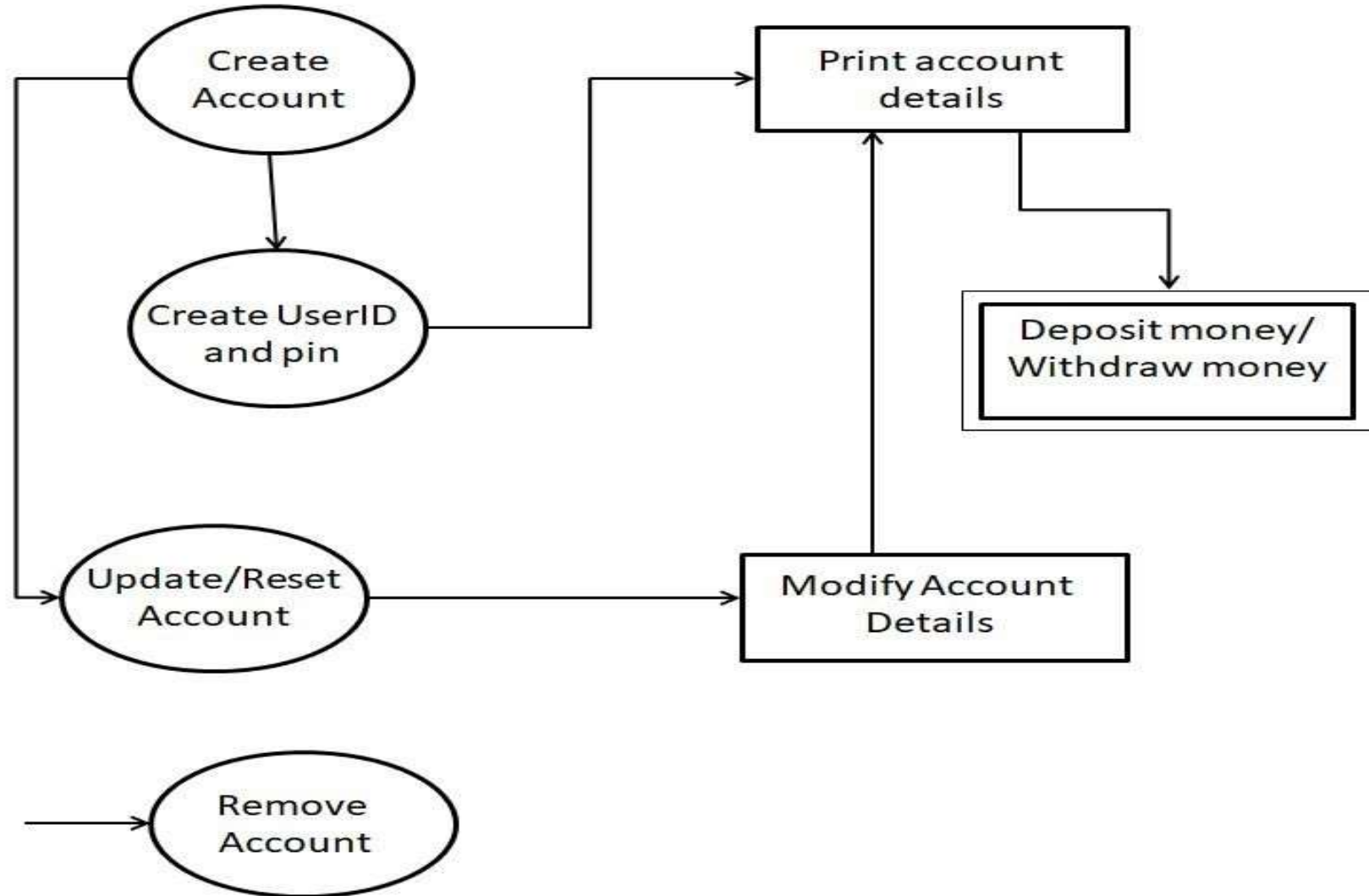
# Literature Survey

S.No	Paper Title	Name of the Conference/Journal, Year	Technology Used
4	Bank Management System	MD.Faizan, MD.Aquil Amwar, Masrurul Haque School Of Computer Science and Engineering, Galgotias University, Greater Noida, India	The project entitled “Bank management system” is a computerized telecommunications device that provides the customers of a financial institution with access to financial transactions in a public space without the need for a human clerk or bank taller (manpower).
5	APPLIED ISSUES ABOUT BANKING RISK MANAGEMENT	Elena Geanina CLIPICI1 1 Ms Spiru Haret University, Faculty of Economic Sciences, Fabricii Street, no. 46G, Bucharest, 030045, Romania, 2017	The following paper emphasizes the need to deepen the understanding of the notion of banking risk management by explaining the significant risks the bank encounters during financial exercises, as well as their additional entries.

# Literature Survey

S.No	Paper Title	Name of the Conference/Journal, Year	Technology Used
6	Pathways to Sustainable Banking Management	Dragan (Santamarian) Oana Raluca “Babes – Bolyai” University, Cluj Napoca, Faculty of Economics and Business Administration	This paper describes one of the major challenges of the future: the sustainable development of the society. Sustainability is now increasingly recognized as central to the growth of emerging market economies. For the banking sector, this represents both a demand for greater social and environmental responsibility as well as a new landscape of business opportunity
7	Bank Management System	Volume-7, Issue-3, May-June 2017 International Journal of Engineering and Management Research Page Number: 547-549	In this paper modules such as Main menu, admin, manager, account creation, amount withdraw, deposits and report have been.

# Block Diagram



# Software Details

Emu 8086 Assembly language: EMU8086 - MICROPROCESSOR EMULATOR is a free emulator for multiple platforms. It provides its user with the ability to emulate old 8086 processors,



# Functionality

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

# Code

```
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0001 ;Project Title: Bank Management System
0002
0003 .model small
0004 .stack 100h
0005 .data
0006     msg0 db '1. Create new Account$'
0007     msg1 db '2. Print Account Details$'
0008     msg2 db '3. Withdraw Money $'
0009     msg3 db '4. Deposit Money $'
0010     msg4 db '5. Reset Account $'
0011     msg5 db '6. Modify Account Details$'
0012
0013     opmsg1 db '1. Create new Account$'
0014     opmsg2 db '2. Print Account Details$'
0015     opmsg3 db '3. Withdraw Money $'
0016     opmsg4 db '4. Deposit Money $'
0017     opmsg5 db '5. Reset Account $'
0018     opmsg6 db '6. Modify Account Details$'
0019
0020     opmsg8 db 'Press Enter To Return to Main Menu $'
0021
0022     insg db 'What Do You Want To Do ? : $'
0023     inputCode db ?
0024
0025 ;Account details
0026
0027     accountName db 100 dup('$')
0028     accountPIN db 100 dup('$')
0029     accountPINcount dw 0 ;This keeps track how many digit a pin is
0030     totalAmount dw 0
0031     inputAmountOption db ?
0032
0033 ;Option 1 <Create Account> Messages
0034     op1msg1 db '1. Enter Account Name: $'
0035     op1msg2 db '2. Enter Account Pin: $'
0036     op1msg3 db 'Successfully Created New Account ! $'
0037
0038 ;Option 2 <Print details> Messages
0039     op2msg1 db 'Account Name: $'
0040     op2msg2 db 'Currently Saved Account PIN: $'
0041     op2msg3 db 'No Accounts Currently Saved !$'
0042     op2msg4 db 'Total Money Left: $'
0043     op2msg5 db 'You Have No Money $'
0044
0045 ;Option 4 <Money> Messages
0046     op4msg1 db '1. Rs 1000$'
0047     op4msg2 db '2. Rs 2000$'
0048     op4msg3 db '3. Rs 5000$'
0049     op4msg4 db '4. Rs 10000$'
0050     op4msg5 db 'Enter Code: $'
0051     op4msg6 db 'You Are Withdrawing Too MUCH !$'
0052
0053 ;Option 5 <Reset> Messages
0054     op5msg1 db 'Account Has been reset successfully$'
0055
0056 ;Option 6 <Modify Account> Messages
0057
```

```
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0055 ;Option 5 <Reset> Messages
0056 op5msg1 db 'Account Has been reset successfully$'
0057
0058 ;Option 6 <Modify Account> Messages
0059 op6msg0 db 'Account Details Successfully Changed !$'
0060 op6msg1_1 db '1. New Account Name ( old: $'
0061 op6msg1_2 db ' ) : $'
0062 op6msg2_1 db '2. New Account Pin ( old: $'
0063 op6msg2_2 db ' ) : $'
0064
0065 ;PIN Protection
0066 pinop_msg1 db 'Enter PIN: $'
0067 pinop_msg2 db 'Account NOT created ... $'
0068
0069 .code
0070
0071 ;=====
0072 ;
0073 ; U T I L S
0074 ;
0075 ;=====
0076
0077 ;Enter to Continue
0078 proc etc
0079 etcin:
0080 mov ah,1
0081 int 21h
0082 cmp al,13
0083 je mainloop
0084 jmp etcin
0085 ret
0086 etc endp
0087
0088 ;This checks whether the account has been created or not using the pin Count
0089 checkAccountCreated proc
0090 cmp accountPINcount,0
0091 je accountNotCreated
0092 ret
0093
0094 accountNotCreated:
0095 call clearScreen
0096 printString pinop_msg2
0097 call etc
0098
0099 checkAccountCreated endp
0100
0101 ;just mov number to ax and call this proc
0102 printNumber PROC
0103 ;initialize count
0104 mov cx,0
0105 mov dx,0
0106 label1:
0107 ; if ax is zero
0108 cmp ax,0
0109 je print1
0110
0111 ;initialize bx to 10
0112 mov bx,10
0113
```

```
127
128     print1:
129         ;check if count
130         ;is greater than zero
131         cmp cx,0
132         je exitprint
133
134         ;pop the top of stack
135         pop dx
136
137         ;add 48 so that it
138         ;represents the ASCII
139         ;value of digits
140         add dx,48
141
142         ;interrupt to print a
143         ;character
144         mov ah,02h
145         int 21h
146
147         ;decrease the count
148         dec cx
149         jmp print1
150
151 exitprint:
152     ret
153     printNumber ENDP
154
155 clearScreen proc near
156     call newline
157     ret
158 clearScreen endp
159
160 newline proc near
161     mov ah,2
162     mov dl,10
163     int 21h
164     mov dl,13
165     int 21h
166     ret
167 newline endp
168
169 macro printString str
170     mov ah,9
171     lea dx,str
172     int 21h
173 endm
174
175 ;Ask for user pin here
176 getPinInput proc
177     call clearScreen
178
179     printString pinop_msg1
180
181     mov si,offset accountPIN
182     mov cx,accountPINcount ;Search n amount of times the pin Count
183     getinput:
184     inc
```

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```
2882
2883
2884 ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
2885 ::
2886 ::                M E N U   S Y S T E M
2887 ::
2888 ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
2889
2890 DisplayMenu proc near
2891     printString msg0
2892     call newline
2893     printString msg1
2894     call newline
2895     printString msg2
2896     call newline
2897     printString msg3
2898     call newline
2899     printString msg4
2900     call newline
2901     printString msg5
2902     call newline
2903     printString msg6
2904     call newline
2905     printString msg7
2906     call newline
2907
2908     call newline
2909     printString opmsg1
2910     call newline
2911     printString opmsg2
2912     call newline
2913     printString opmsg3
2914     call newline
2915     printString opmsg4
2916     call newline
2917     printString opmsg5
2918     call newline
2919     printString opmsg6
2920     call newline
2921     ret
2922 DisplayMenu endp
2923
2924 GetInputMenuSystem proc near
2925     call newline
2926     printString msg
2927     mov ah,1
2928     int 21h
2929     mov inputCode,al
2930     ret
2931 GetInputMenuSystem endp
2932
2933 ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
2934 ::
2935 ::                O P T I O N   1   -> CREATE ACCOUNT
2936 ::
2937 ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
2938
2939 macro ISop11 str
2940     mov si,offset str
```

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```
253 ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
254 ::
255 ::             O P T I O N 1  -> CREATE ACCOUNT
256 ::
257 ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
258 ::
259 macro ISop11 str
260     mov si,offset str
261     input:
262         mov ah,1
263         int 21h
264         cmp al,13
265         je labelop1_1
266         mov [sil,al]
267         inc si
268         jmp input
269
270     exitMac:
271         ret
272
273 endm
274
275 macro ISop12 str
276     mov si,offset str
277     input2:
278         mov ah,1
279         int 21h
280         cmp al,13
281         je labelop1_2
282         inc accountPINcount
283         mov [sil,al]
284         inc si
285         jmp input2
286
287     exitMac2:
288         ret
289
290 endm
291
292 proc etcop1
293     etcoplin:
294         mov ah,1
295         int 21h
296         cmp al,13
297         je mainloop
298         jmp etcoplin
299     ret
300 etcop1 endp
301
302 op1 proc
303
304     call clearScreen
305
306     call newLine
307     call newLine
308
309     printString op1msg1
310     ISop11 accountName
311 ::
```

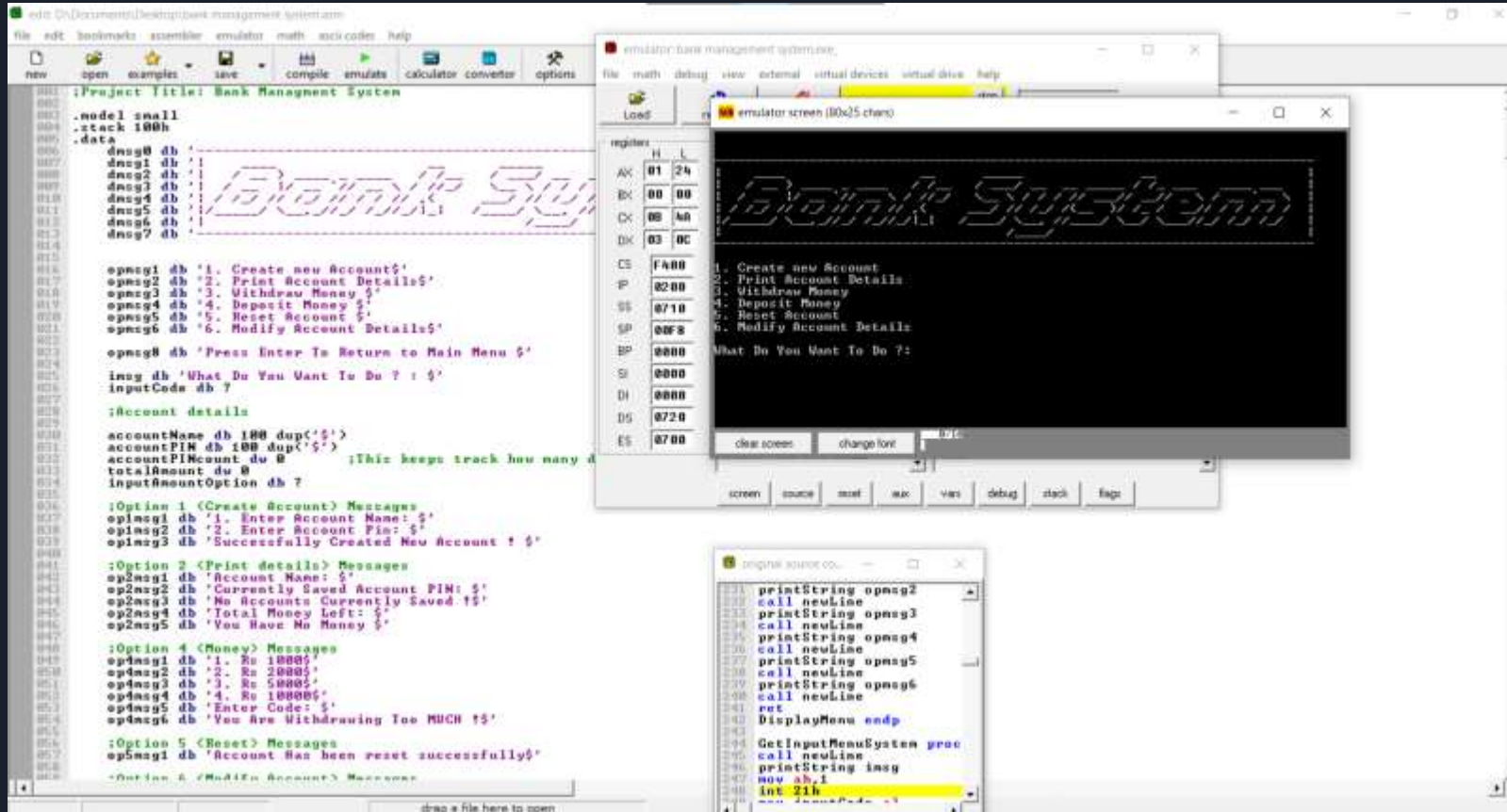
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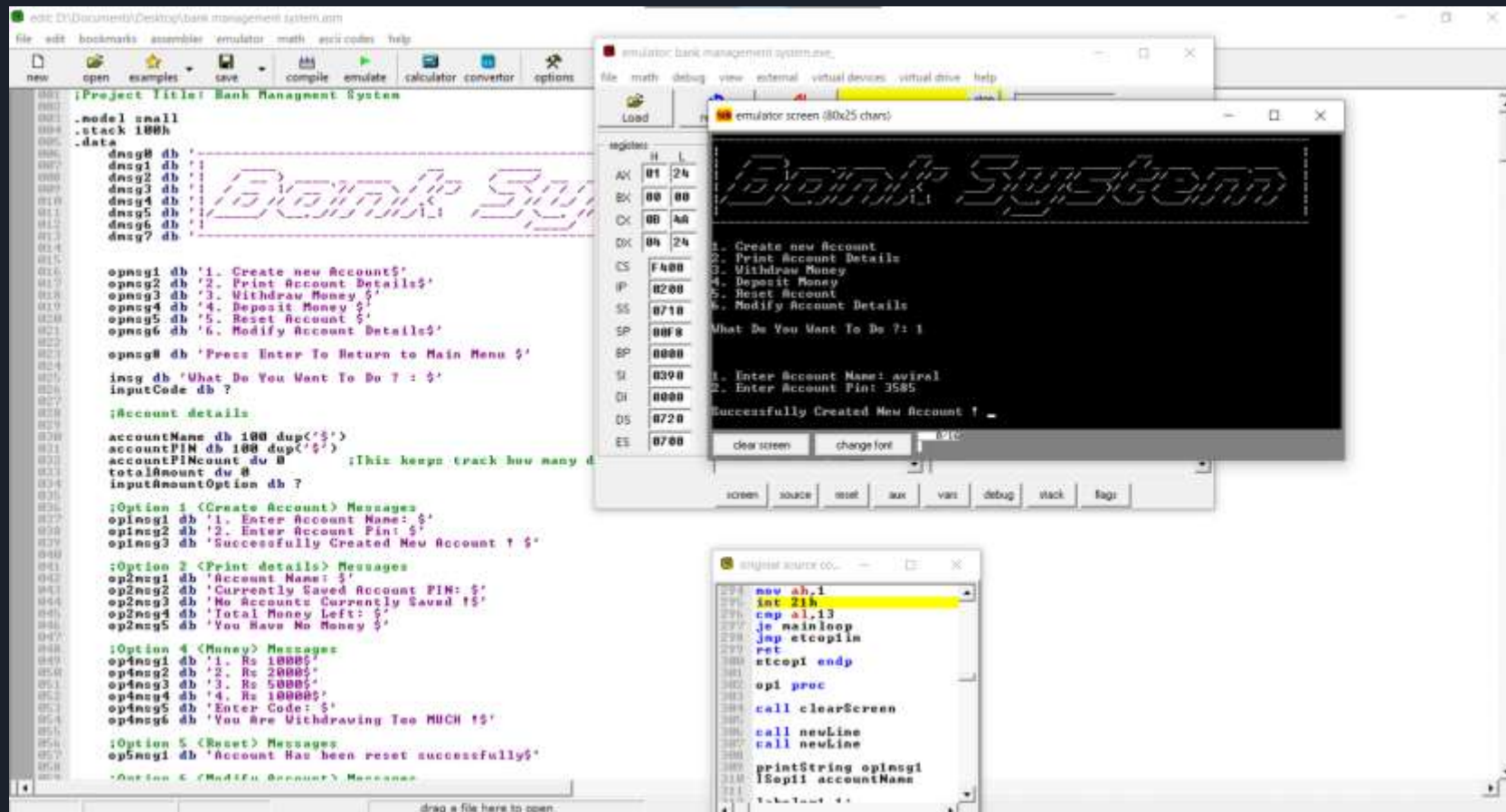
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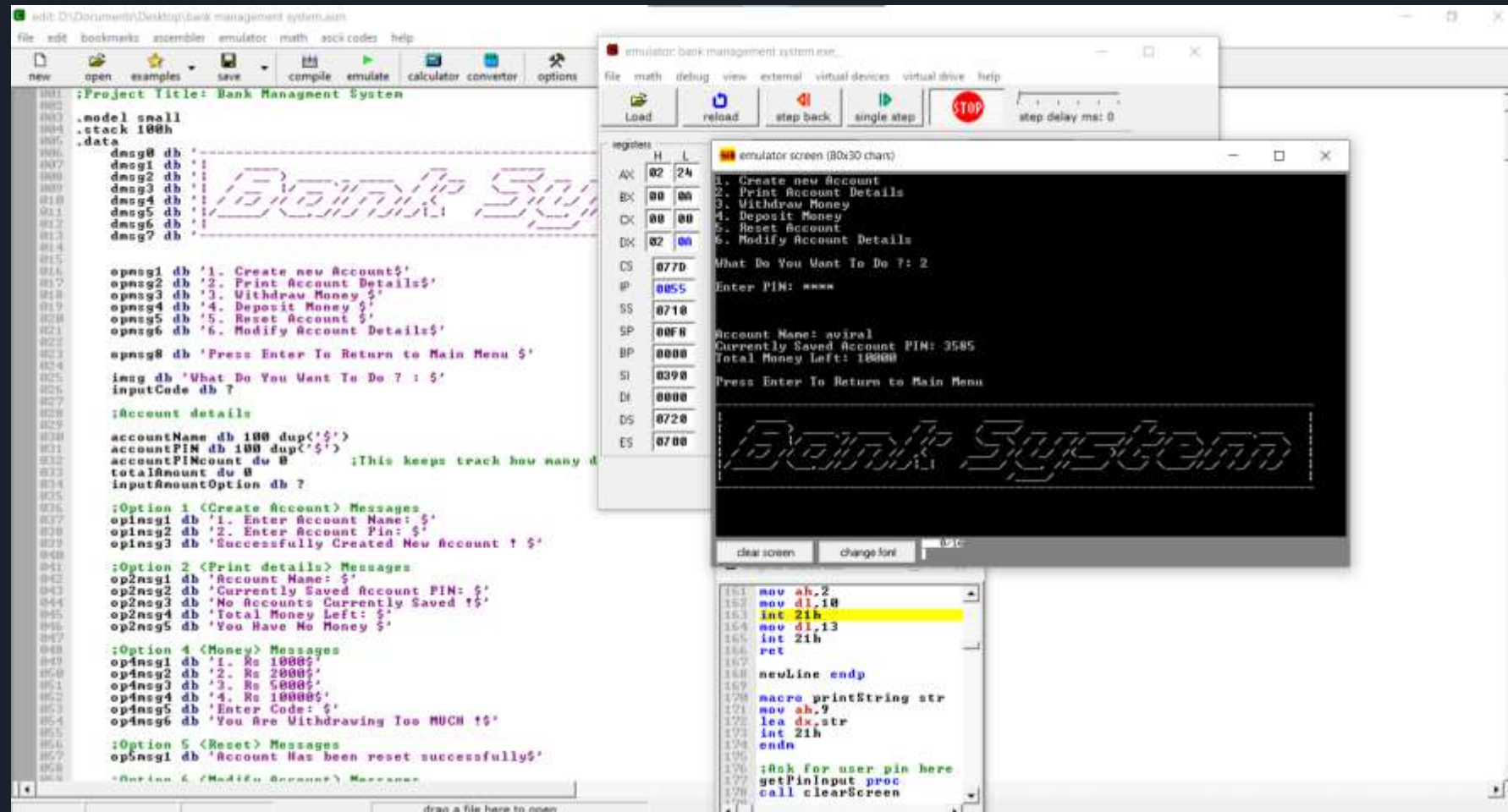


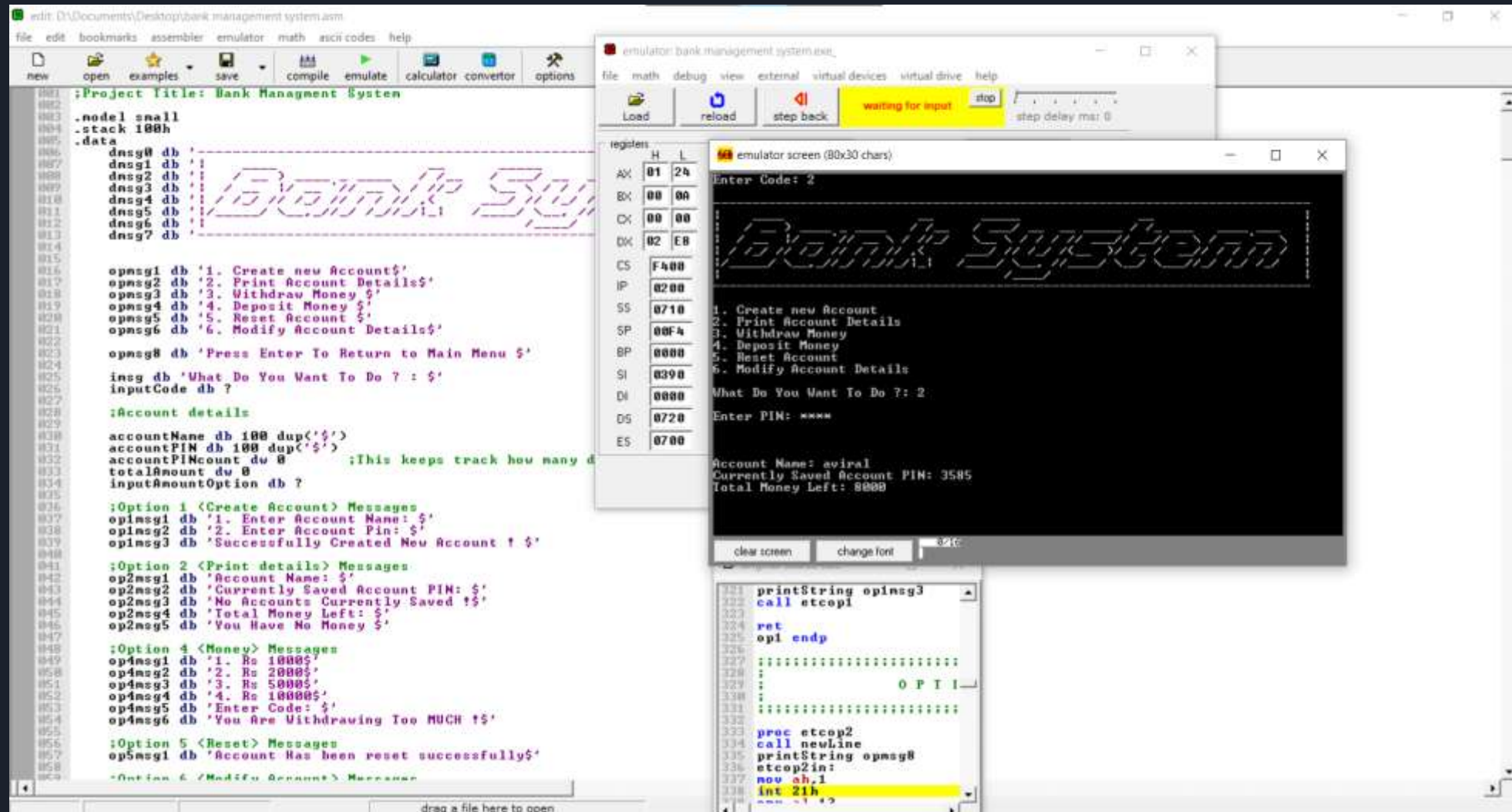
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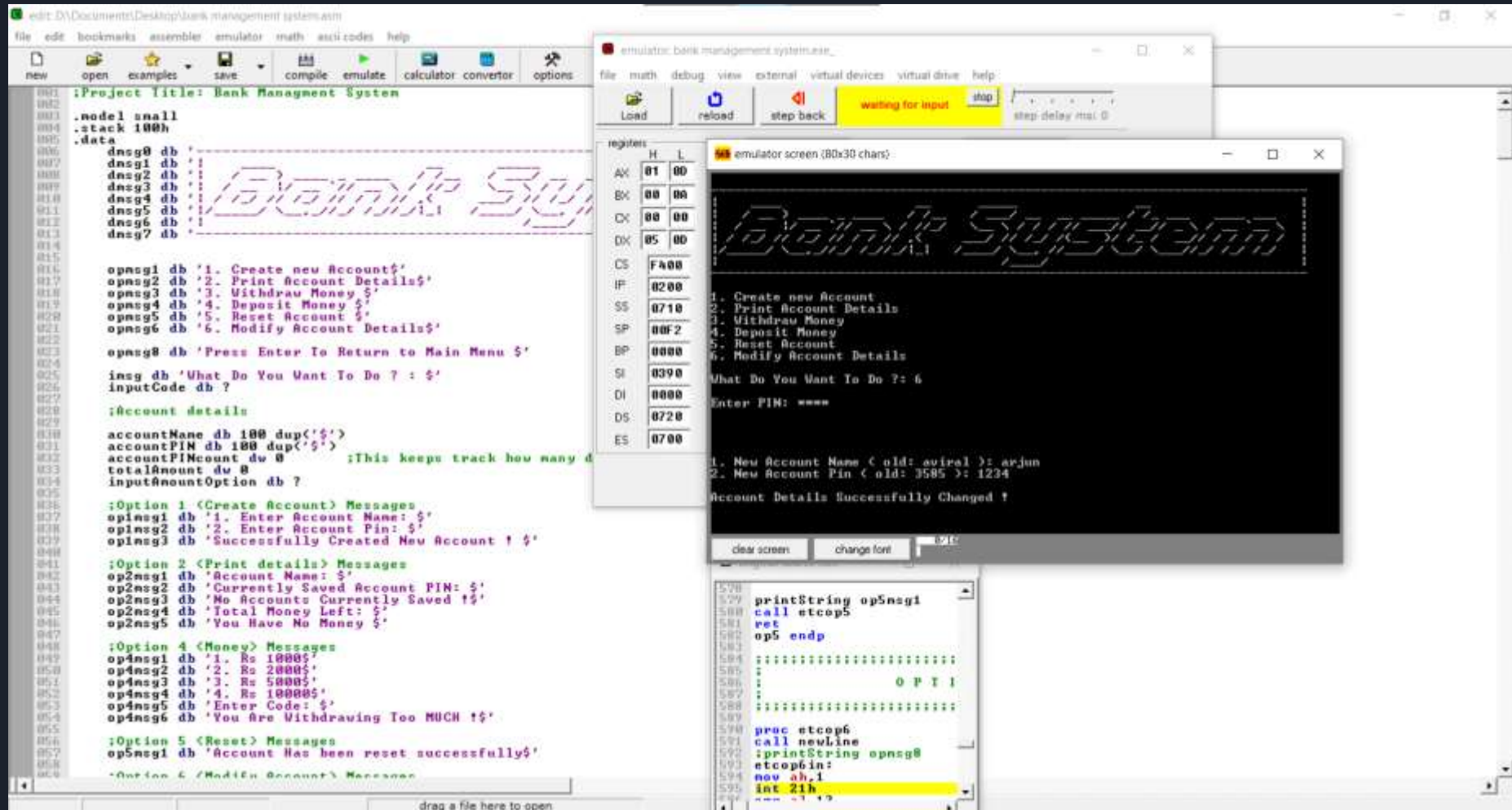




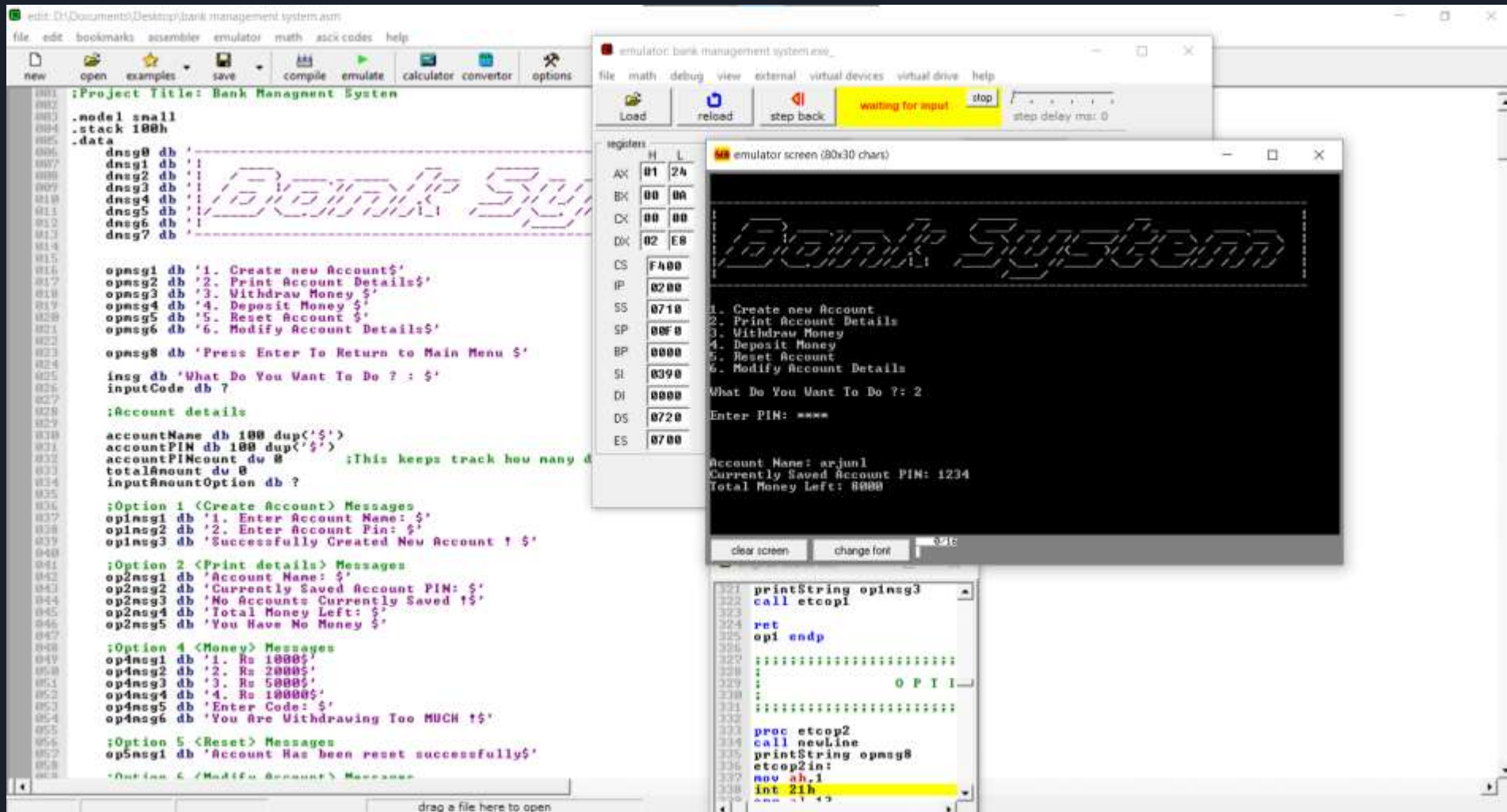


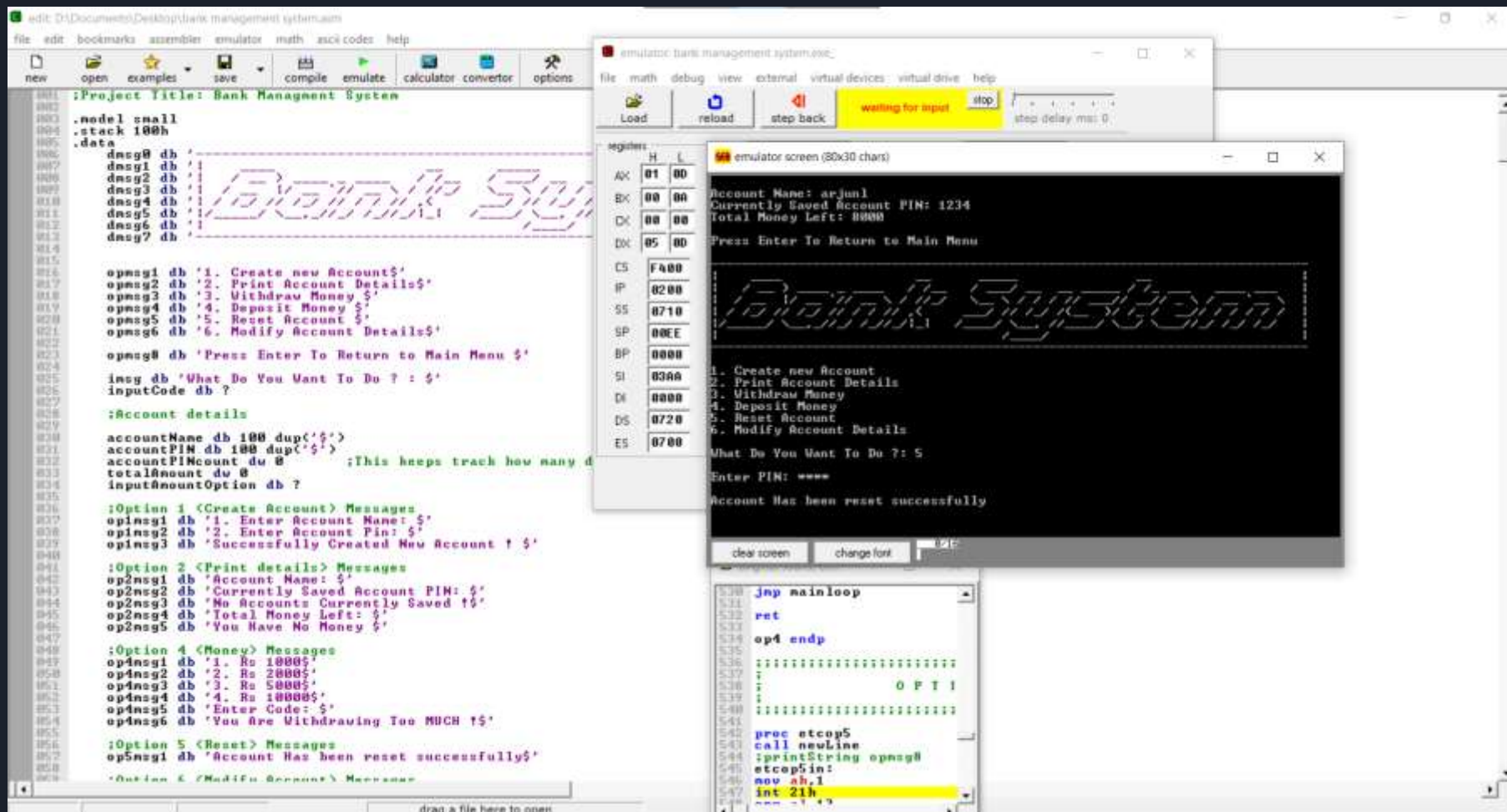












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