

Screenshot File for Enterprise Computing Project 2

Simulation starting along with Deposit, Withdraw, and Flags being shown:

*** SIMULATION BEGINNING ***			
Deposit Agents:	Withdrawal Agents:	Balances:	Transaction Number:
Agent DT1 deposits \$363 into: JA-1		(+) JA-1 balance is \$363	1
Agent DT2 deposits \$550 into: JA-2		(+) JA-2 balance is \$550	2
Agent DT4 deposits \$481 into: JA-1		(+) JA-1 balance is \$844	3
Flagged TransactionAgent DT4 made a deposit in excess of \$450.00 USD - See Flagged Transaction Log.			
Flagged TransactionAgent DT2 made a deposit in excess of \$450.00 USD - See Flagged Transaction Log.			
Agent DT3 deposits \$4 into: JA-2		(+) JA-2 balance is \$554	4
Agent DT5 deposits \$593 into: JA-1		(+) JA-1 balance is \$1437	5
Flagged TransactionAgent DT5 made a deposit in excess of \$450.00 USD - See Flagged Transaction Log.			
Agent WT2 withdraws \$32 from JA-2		(-) JA-2 balance is \$522	6
Agent WT3 withdraws \$82 from JA-2		(-) JA-2 balance is \$440	7
Agent WT4 withdraws \$50 from JA-2		(-) JA-2 balance is \$390	8
Agent WT5 withdraws \$11 from JA-2		(-) JA-2 balance is \$379	9
Agent WT1 withdraws \$30 from JA-1		(-) JA-1 balance is \$1407	10
Agent WT8 withdraws \$23 from JA-1		(-) JA-1 balance is \$1384	11
Agent WT6 withdraws \$83 from JA-2		(-) JA-2 balance is \$296	12
Agent WT10 withdraws \$90 from JA-1		(-) JA-1 balance is \$1294	13
Agent WT7 withdraws \$85 from JA-2		(-) JA-2 balance is \$211	14
Flagged TransactionAgent WT10 made a withdrawal in excess of \$90.00 USD - See Flagged Transaction Log.			
Agent WT9 withdraws \$37 from JA-2		(-) JA-2 balance is \$174	15

All 10 withdrawal agents being blocked:

Agent DT3 deposits \$77 into: JA-2	(+) JA-2 balance is \$82	131
Agent DT4 deposits \$78 from JA-2	(-) JA-2 balance is \$4	132
Agent WT10 attempts to withdraw \$16 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT7 attempts to withdraw \$93 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT3 attempts to withdraw \$23 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT8 attempts to withdraw \$64 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT9 attempts to withdraw \$62 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT6 attempts to withdraw \$12 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT4 attempts to withdraw \$48 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT1 attempts to withdraw \$62 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT5 attempts to withdraw \$42 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent WT2 attempts to withdraw \$16 from JA-2	***** WITHDRAWAL BLOCKED ***** !INSUFFICIENT FUNDS! Balance only \$4	
Agent DT3 deposits \$315 into: JA-1	(+) JA-1 balance is \$2810	133
TRANSFER-->Agent TR2 attempts to transfer \$41 from JA-2 *****TRANSFER BLOCKED*****		

Transfer scenarios showing successful and blocked transfers:

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Flagged Transaction Agent WT10 made a withdrawal in excess of $90.00 USD - See Flagged Transaction Log.
Agent DT4 deposits $562 into: JA-1 (+) JA-1 balance is $2473 44
***Flagged Transaction*** Agent DT4 made a deposit in excess of $450.00 USD - See Flagged Transaction Log.

TRANSFER-->Agent TR2 attempts to transfer $87 from JA-2
*****TRANSFER BLOCKED*****
INSUFFICIENT FUNDS
JA-2 balance is only $6

Agent WT2 withdraws $65 from JA-1 (-) JA-1 balance is $2408 45
Agent WT4 attempts to withdraw $14 from JA-2 ***** WITHDRAWAL BLOCKED *****
!INSUFFICIENT FUNDS!
Balance only $6

Agent WT2 attempts to withdraw $53 from JA-2 ***** WITHDRAWAL BLOCKED *****
!INSUFFICIENT FUNDS!
Balance only $6

Agent WT10 attempts to withdraw $46 from JA-2 ***** WITHDRAWAL BLOCKED *****
!INSUFFICIENT FUNDS!
Balance only $6

TRANSFER-->Agent TR2 transferring $80 from JA-1 to JA-2 --> JA-1 balance is now $2328 46
TRANSFER COMPLETE JA-2 balance is now $86

Agent DT3 deposits $134 into: JA-2 (+) JA-2 balance is $220 47
Agent WT7 withdraws $69 from JA-2 (-) JA-2 balance is $151 48
Agent WT6 withdraws $65 from JA-2 (-) JA-2 balance is $86 49
Agent WT3 withdraws $40 from JA-2 (-) JA-2 balance is $46 50

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Internal Bank Audit:

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!INSUFFICIENT FUNDS!
Balance only $8
Agent WT6 withdraws $93 from JA-1 (-) JA-1 balance is $1662 570
***Flagged Transaction***Agent WT6 made a withdrawal in excess of $90.00 USD - See Flagged Transaction Log.
*****
Internal Bank Audit Beginning...
The total number of transactions since last Internal Audit is: 151

INTERNAL BANK AUDITOR FINDS CURRENT ACCOUNT BALANCE FOR JA-1 TO BE: $1662
INTERNAL BANK AUDITOR FINDS CURRENT ACCOUNT BALANCE FOR JA-2 TO BE: $8

Internal Bank Audit Complete.
*****
Agent WT6 attempts to withdraw $12 from JA-2 ***** WITHDRAWAL BLOCKED *****
!INSUFFICIENT FUNDS!
Balance only $8
Agent DT4 deposits $116 into: JA-1 (+) JA-1 balance is $1778 571
Agent DT5 deposits $125 into: JA-2 (+) JA-2 balance is $133 572

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Treasury Audit:

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Agent WT2 attempts to withdraw $12 from JA-1 ***** WITHDRAWAL BLOCKED *****
!INSUFFICIENT FUNDS!
Balance only $0
Agent WT8 withdraws $40 from JA-2 (-) JA-2 balance is $475 1472
*****
UNITED STATES DEPARTMENT OF THE TREASURY - Bank Audit Beginning...
The total number of transactions since last Treasury Department Audit is: 506

TREASURY DEPT AUDITOR FINDS CURRENT ACCOUNT BALANCE FOR JA-1 TO BE: $0
TREASURY DEPT AUDITOR FINDS CURRENT ACCOUNT BALANCE FOR JA-2 TO BE: $475

Treasury Department Audit Complete.
*****
Agent DT5 deposits $177 into: JA-2 (+) JA-2 balance is $652 1473
Agent DT3 deposits $301 into: JA-2 (+) JA-2 balance is $953 1474
Agent WT8 withdraws $95 from JA-2 (-) JA-2 balance is $858 1475

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transactions.csv preview:

transactions - Notepad					
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Agent DT4 issued deposit	of \$496.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 3		
Agent WT3 issued withdrawal	of \$94.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 7		
Agent WT10 issued withdrawal	of \$92.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 15		
Agent WT3 issued withdrawal	of \$94.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 27		
Agent WT5 issued withdrawal	of \$92.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 30		
Agent WT1 issued withdrawal	of \$91.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 46		
Agent DT5 issued deposit	of \$545.00	at:09/16/2024 15:49:27 EDT	Transaction Number : 47		
Agent DT2 issued deposit	of \$501.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 48		
Agent WT1 issued withdrawal	of \$90.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 58		
Agent DT1 issued deposit	of \$585.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 81		
Agent WT1 issued withdrawal	of \$93.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 89		
Agent WT9 issued withdrawal	of \$97.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 90		
Agent DT1 issued deposit	of \$569.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 91		
Agent WT7 issued withdrawal	of \$98.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 94		
Agent DT4 issued deposit	of \$456.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 99		
Agent WT10 issued withdrawal	of \$95.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 120		
Agent WT5 issued withdrawal	of \$96.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 129		
Agent WT1 issued withdrawal	of \$90.00	at:09/16/2024 15:49:28 EDT	Transaction Number : 131		
Agent DT4 issued deposit	of \$536.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 144		
Agent WT5 issued withdrawal	of \$92.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 151		
Agent WT4 issued withdrawal	of \$90.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 157		
Agent DT4 issued deposit	of \$521.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 162		
Agent WT7 issued withdrawal	of \$97.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 167		
Agent WT1 issued withdrawal	of \$94.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 168		
Agent WT8 issued withdrawal	of \$91.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 173		
Agent WT2 issued withdrawal	of \$97.00	at:09/16/2024 15:49:29 EDT	Transaction Number : 178		
Agent DT5 issued deposit	of \$504.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 207		
Agent DT2 issued deposit	of \$479.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 213		
Agent DT5 issued deposit	of \$470.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 216		
Agent WT2 issued withdrawal	of \$94.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 223		
Agent WT1 issued withdrawal	of \$92.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 229		
Agent WT4 issued withdrawal	of \$94.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 232		
Agent WT3 issued withdrawal	of \$95.00	at:09/16/2024 15:49:30 EDT	Transaction Number : 240		
Agent DT1 issued deposit	of \$488.00	at:09/16/2024 15:49:31 EDT	Transaction Number : 250		
Agent WT4 issued withdrawal	of \$95.00	at:09/16/2024 15:49:31 EDT	Transaction Number : 252		
Agent WT1 issued withdrawal	of \$98.00	at:09/16/2024 15:49:31 EDT	Transaction Number : 254		
Agent WT6 issued withdrawal	of \$97.00	at:09/16/2024 15:49:31 EDT	Transaction Number : 255		
Agent WT5 issued withdrawal	of \$92.00	at:09/16/2024 15:49:31 EDT	Transaction Number : 263		

Screenshot towards end of run showing depreciation of account towards \$0:

ConsoleOutputOfSim - Notepad

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		Balance only \$9	
Agent DT1 deposits \$137 into: JA-1	(+) JA-1 balance is \$146	2150	
Agent WT8 withdraws \$94 from JA-1	(-) JA-1 balance is \$52	2151	
Flagged TransactionAgent WT8 made a withdrawal in excess of \$90.00 USD - See Flagged Transaction Log.			
Agent WT1 attempts to withdraw \$59 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$52	
Agent WT6 withdraws \$34 from JA-1	(-) JA-1 balance is \$18	2152	
Agent WT7 attempts to withdraw \$75 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT3 attempts to withdraw \$88 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT10 attempts to withdraw \$19 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT4 attempts to withdraw \$60 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT9 attempts to withdraw \$56 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT5 attempts to withdraw \$91 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT2 attempts to withdraw \$74 from JA-1	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$18	
Agent WT6 attempts to withdraw \$3 from JA-2	***** WITHDRAWAL BLOCKED *****		
	!INSUFFICIENT FUNDS!		
		Balance only \$2	
Agent DT4 deposits \$560 into: JA-1	(+) JA-1 balance is \$578	2153	
Flagged TransactionAgent DT4 made a deposit in excess of \$450.00 USD - See Flagged Transaction Log.			
Agent WT1 withdraws \$59 from JA-1	(-) JA-1 balance is \$519	2154	
Agent WT7 withdraws \$75 from JA-1	(-) JA-1 balance is \$444	2155	
Agent WT3 withdraws \$88 from JA-1	(-) JA-1 balance is \$356	2156	
Agent WT10 withdraws \$19 from JA-1	(-) JA-1 balance is \$337	2157	
Agent WT4 withdraws \$60 from JA-1	(-) JA-1 balance is \$277	2158	
Agent WT9 withdraws \$56 from JA-1	(-) JA-1 balance is \$221	2159	
Agent WT5 withdraws \$91 from JA-1	(-) JA-1 balance is \$130	2160	
Flagged TransactionAgent WT5 made a withdrawal in excess of \$90.00 USD - See Flagged Transaction Log.			
Agent WT2 withdraws \$74 from JA-1	(-) JA-1 balance is \$56	2161	