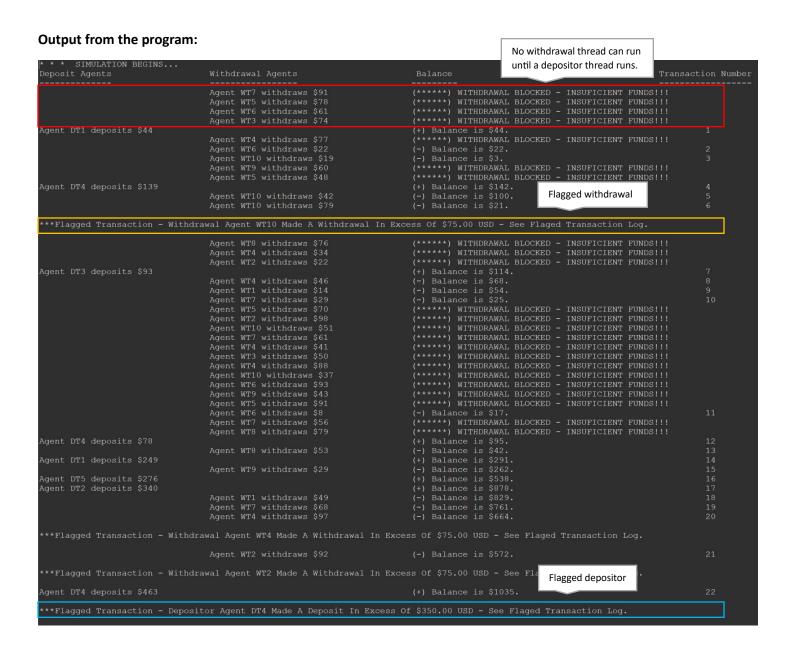
Name: Victoria Ten

Course: CNT 4714 Spring 2024

Assignment title: Project 2 – Synchronized, Cooperating Threads Under Locking

Due Date: February 11, 2024



## The Internal Bank Auditor agent example:

```
INTERNAL BANK AUDITOR FINDS CURRENT ACCOUNT BALANCE TO BE: $1035 Number of transactions since last Internal audit is: 22

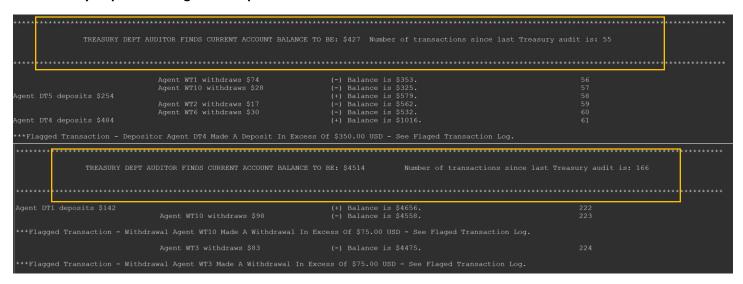
Agent WT3 withdraws $75 (-) Balance is $1010, 23
Agent WT3 withdraws $77 (-) Balance is $1010, 24
Agent WT1 withdraws $71 (-) Balance is $992, 25
Agent DT1 deposits $214 Agent WT0 withdraws $78 (-) Balance is $998. 26
Agent DT1 deposits $214 Agent WT10 Made A Withdrawal In Excess of $75.00 USD - See Flaged Transaction Log.

****Flagged Transaction - Withdrawal Agent WT10 Made A Withdrawal In Excess of $75.00 USD - See Flaged Transaction Log.

****Flagged Transaction - Depositor Agent UT2 Made A Deposit In Excess of $350.00 USD - See Flaged Transaction Log.

Agent WT10 withdraws $60 (-) Balance is $850. 75
Agent WT20 withdraws $60 (-) Balance is $850. 75
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $850. 76
Agent WT20 withdraws $60 (-) Balance is $860. 00
Agent WT20 withdraws $77 (-) Balance is $860. 00
Agent WT20 withdraws $77 (-) Balance is $860. 00
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Agent WT20 withdraws $77 (-) Balance is $860. 00
Agent WT20 withdraws $77 (-) Balance is $860. 00
Agent WT20 withdraws $77 (-) Balance
```

## The Treasury Dept Auditor agent example:



## The transaction log file (transactions.csv):

```
Withdrawal Agent WT10 issued withdrawal of $79.00 at: 11/02/2024 23:33:16 EST
                                                                                      Transaction Number : 6
       Withdrawal Agent WT4 issued withdrawal of $97.00 at: 11/02/2024 23:33:17 EST
                                                                                      Transaction Number : 20
       Withdrawal Agent WT2 issued withdrawal of $92.00 at: 11/02/2024 23:33:17 EST
                                                                                      Transaction Number : 21
Depositor Agent DT4 issued deposit of $463.00 at: 11/02/2024 23:33:17 EST
                                                                              Transaction Number : 22
       Withdrawal Agent WT10 issued withdrawal of $78.00 at: 11/02/2024 23:33:18 EST
                                                                                      Transaction Number : 28
       Withdrawal Agent WT3 issued withdrawal of $87.00 at: 11/02/2024 23:33:18 EST
                                                                                      Transaction Number: 30
       Withdrawal Agent WT5 issued withdrawal of $95.00 at: 11/02/2024 23:33:18 EST
                                                                                      Transaction Number: 31
       Withdrawal Agent WT4 issued withdrawal of $88.00 at: 11/02/2024 23:33:18 EST
                                                                                      Transaction Number: 43
       Withdrawal Agent WT2 issued withdrawal of $78.00 at: 11/02/2024 23:33:19 EST
                                                                                      Transaction Number: 53
       Withdrawal Agent WT1 issued withdrawal of $99.00 at: 11/02/2024 23:33:19 EST
                                                                                      Transaction Number: 55
Depositor Agent DT4 issued deposit of $484.00 at: 11/02/2024 23:33:19 EST
                                                                              Transaction Number : 61
       Withdrawal Agent WT3 issued withdrawal of $85.00 at: 11/02/2024
                                                                                      2ND action Number : 66
                                                                         23RD
                                                                                3M
       Withdrawal Agent WT5 issued withdrawal of $91.00 at: 11/02/2024 23:33:19 EST
                                                                                      Transaction Number : 68
       Withdrawal Agent WT1 issued withdrawal of $89.00 at: 11/02/2024 23:33:19 EST
                                                                                      Transaction Number : 70
Depositor Agent DT2 issued deposit of $400.00 at: 11/02/2024 23:33:19 EST
                                                                              Transaction Number: 74
       Withdrawal Agent WT7 issued withdrawal of $83.00 at: 11/02/2024 23:33:20 EST
                                                                                      Transaction Number: 83
                                                                              Transaction Number : 85
Depositor Agent DT4 issued deposit of $433.00 at: 11/02/2024 23:33:20 EST
Depositor Agent DT4 issued deposit of $452.00 at: 11/02/2024 23:33:20 EST
                                                                              Transaction Number: 93
       Withdrawal Agent WT6 issued withdrawal of $84.00 at: 11/02/2024 23:33:20 EST
                                                                                      Transaction Number: 94
```