**Operating Systems BankTellerSimulator Report**

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**How to run:**

If given permission denied error run the command below:

chmod +x banksimulator

**Main Function**

The function then creates a Queue struct named c\_queue using the createQueue function, initializes a TellerTotals struct named totals using the initTellerTotals function, and opens a log file named "r\_log" using openLogFile function.

The function then creates a pthread\_t variable named customer\_th and an array of 4 pthread\_t variables named teller\_th, and initializes a loop variable i.

The function prints a message indicating that it is starting the threads, creates a new thread for the customer function using pthread\_create, and creates 4 new threads for the teller function using a for loop and pthread\_create.

The function then waits for the threads to finish executing using pthread\_join, and prints a message indicating that the threads have been joined.

Finally, the function frees the memory allocated for c\_queue using freeQueue function, totals using freeTellerTotals function, and the logfile using closeLogFile function, and returns 0 to indicate successful completion of the program.