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def main():
clients = load_clients()
 while True:
     s0_menu_items = ('Select client', 'Create client')
     choice = display_menu(s0_menu_items)
     if choice == None:
         print('exit system s0')
         exit()
     elif choice == 1:
         while True:
             choice = select_client(clients)
             if choice == None:
                 print('return to previous menu s00 -> s0')
             else:
                 active_client = choice
                 while True:
                     s1_menu_items =('Transactions', 'View Portfolio', 'View Transactions')
                     choice = display_menu(s1_menu_items)
                     if choice == None:
                         print('return to previous menu s1 -> s00')
                         break
                     elif choice == 1:
                         while True:
                             s10_menu_items =('Buy', 'Sell', 'Contribution', 'Withdrawal')
                             choice = display_menu(s10_menu_items)
                             if choice == None:
                                 print('return to previous menu s10 -> s1')
                                 break
                             elif choice == 1:
                                 # get buy input, wait for return to break out of loop
                                 buy_input(active_client)
                                 break
                             elif choice == 2:
                                 # get sell input, wait for return to break out of loop
                                 sell_input(active_client)
                                 hreak
                             elif choice == 3:
                                 # get contribution input, wait for return to break out of loop
                                 contribution_input(active_client)
                                 break
                             elif choice == 4:
                                 # get withdrawal input, wait for return to break out of loop
                                 withdrawal_input(active_client)
                                 break
                             else:
                                 print('FATAL ERROR: we should never get here s10 bad input'
                     elif choice == 2:
                         # view portfolio wait for None return to break out of loop
                         view_portfolio(active_client)
                         break
                     elif choice == 3:
                         #view transactions wait for None return to break out of loop
                         view_transactions()
                     else:
                         print("FATAL ERROR: should never get here s1 bad input
     elif choice == 2: # Create client
         while True:
             choice = input_client(clients)
             if choice == None:
                 print('return to previous menu s01 -> s0')
                 break
             else:
                 new_client = choice
                 print(f"Client {new_client['fname']} {new_client['lname']} created.s01 -> s0")
                 break # break out of loop go to s0
     else: print("FATAL ERROR: should never get here s0 bad input")
```