Example Running Trace

Here's an example trace of the program running once the assignment is complete.

```
Welcome to the Express Account Company

MAIN MENU
1.) Create a new account
2.) Log into an existing account
3.) Exit the banking system
Please enter your selection: 1

CHOOSE THE TYPE FOR THE NEW ACCOUNT
1.) Student express account
2.) Faculty express account
Please enter your selection: 1
Created new Student Express account #0, balance: $0.0, number of meals: 0

STUDENT EXPRESS ACCOUNT #0, BALANCE: $0.0, NUMBER OF MEALS: 0
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 1
Enter deposit amount: 600
Received bonus of $6.0
Deposit $600.0 New balance $606.0

STUDENT EXPRESS ACCOUNT #0, BALANCE: $606.0, NUMBER OF MEALS: 0
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 2
Enter the number of meals you want to purchase: 1
Purchased 1 meals with $10.0 per meal New balance $596.0

STUDENT EXPRESS ACCOUNT #0, BALANCE: $596.0, NUMBER OF MEALS: 1
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 3

STUDENT EXPRESS ACCOUNT #0, BALANCE: $596.0, NUMBER OF MEALS: 0
1.) Make a deposit
```

```
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 3
No meals left on your account. Please purchase meals first.

STUDENT EXPRESS ACCOUNT #0, BALANCE: $596.0, NUMBER OF MEALS: 0
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 1
Enter deposit amount: 0
The deposit must be a positive amount.

STUDENT EXPRESS ACCOUNT #0, BALANCE: $596.0, NUMBER OF MEALS: 0
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 2
Enter the number of meals you want to purchase: 60
Not enough balance for 60 meals
Purchased 59 meals, New balance $6.0

STUDENT EXPRESS ACCOUNT #0, BALANCE: $6.0, NUMBER OF MEALS: 59
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 4
Goodbye!

MAIN MENU
1.) Create a new account
2.) Log into an existing account
3.) Exit the system
Please enter your selection: 2

Enter account number: 1
Invalid account number (must be between 0 and 0)

Enter account number: 0
Welcome back Student Express account #0, balance: $6.0, number of meals: 59

STUDENT EXPRESS ACCOUNT #0, BALANCE: $6.0, NUMBER OF MEALS: 59
```

```
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 4
Goodbye!

MAIN MENU
1.) Create a new account
2.) Log into an existing account
3.) Exit the system
Please enter your selection: 1

CHOOSE THE TYPE FOR THE NEW ACCOUNT
1.) Student express account
2.) Faculty express account
Please enter your selection: 2
Created new Faculty Express account #1, balance: $0.0, number of meals: 0

FACULTY EXPRESS ACCOUNT #1, BALANCE: $0.0, NUMBER OF MEALS: 0
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 1
Enter deposit amount: 80
Received bonus of $0.8
Deposit $80.0 New balance $80.8

FACULTY EXPRESS ACCOUNT #1, BALANCE: $80.8, NUMBER OF MEALS: 0
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 2
Enter the number of meals you want to purchase: 3
Purchased 3 meals with $8.0 per meal New balance $56.8

FACULTY EXPRESS ACCOUNT #1, BALANCE: $56.8, NUMBER OF MEALS: 3
1.) Make a deposit
2.) Purchase meals
3.) Have meal
4.) Log out
Please enter your selection: 4
Goodbye!
```

```
MAIN MENU
1.) Create a new account
2.) Log into an existing account
3.) Exit the system
Please enter your selection: 3
Exiting the system
```