

Five Documented Program Scenarios

1. A customer logs onto the system to view their account balance

```
[Eric's-MacBook-Pro:Assignment_Bachmeier Eric$ ./bank
```

```
Welcome to my Banking System
```

```
By: Eric Bachmeier
```

```
0 - MAINTENANCE PERSON
```

```
1 - MANAGER
```

```
Enter a valid login ID (9 to quit): 11114
```

```
Welcome, Eric!
```

```
Please be advised you are $78.32 in debt currently.
```

```
Your next bill will be for $7.83.
```

```
You are set to automatically make a payment in 21 days.
```

```
What can we do for you, Eric?
```

```
1 - Close a chequing account
```

```
2 - Close a savings account
```

```
3 - Deposit
```

```
4 - Withdraw
```

```
5 - View Balances
```

```
6 - Transfer Money
```

```
7 - Make a purchase
```

```
8 - View Purchases
```

```
9 - Switch payment plan
```

```
10 - Logout
```

```
5
```

```
-----  
Chequing Balance is $3000.00
```

```
Savings Balance is $44.00  
-----
```

2. A manager views all the accounts with a filter looking for a specific account number

```
Welcome to my Banking System

By: Eric Bachmeier

0 - MAINTENANCE PERSON
1 - MANAGER

Enter a valid login ID (9 to quit): 1

Welcome Manager!

What can we do for you, Manager?
1 - Create an account
2 - Delete an account
3 - Display one account
4 - Display all accounts
5 - Display failed transactions
6 - Logout

4

How would you like to filter the accounts? (0 to cancel)
1 - Account number
2 - Last name
1
-----
Name:          Kevin Hart
Account Number: 11111
Chequing Balance: $7266.81
Savings Balance: $91.00
Debt Owning:   $1158.75
-----
Name:          Alyssa Manicom
Account Number: 11112
Chequing Balance: $89.33
Savings Balance: $8331.00
Debt Owning:   $0.00
-----
Name:          Sidney Crosby
Account Number: 11113
Chequing Balance: $7316.72
Savings Balance: $9374.66
Debt Owning:   $0.00
-----
Name:          Eric Bachmeier
Account Number: 11114
Chequing Balance: $3000.00
Savings Balance: $44.00
Debt Owning:   $78.32
```

3. A customer transferring a sum of \$55.00 from their chequing to savings account

Welcome to my Banking System

By: Eric Bachmeier

0 - MAINTENANCE PERSON

1 - MANAGER

Enter a valid login ID (9 to quit): 11114

Welcome, Eric!

Please be advised you are \$78.32 in debt currently.

Your next bill will be for \$7.83.

You are set to automatically make a payment in 19 days.

What can we do for you, Eric?

1 - Close a chequing account

2 - Close a savings account

3 - Deposit

4 - Withdraw

5 - View Balances

6 - Transfer Money

7 - Make a purchase

8 - View Purchases

9 - Switch payment plan

10 - Logout

6

Which account would you like to transfer money from? (3 to cancel)

1 - Chequing

2 - Savings

1

How much money do you wish to transfer from chequing? (0 to cancel)
55

\$55.00 was successfully transferred from your chequing account.

Your new balances are as follows:

Chequing \$2945.00

Savings \$99.00

4. The maintenance person viewing the execution trace of the last documented operation (3)

```
Enter a valid login ID (9 to quit): 0

Welcome Maintenance Person!

What can we do for you?
1 - Toggle execution trace feature
2 - Print execution trace to screen
3 - Clear all execution traces
4 - Logout
2

Execution Traces
-----
10/11/2015 22:09:08 --- Processing integer input
10/11/2015 22:09:10 --- User entered valid number --> 4 <--
10/11/2015 22:09:10 --- Maintenance selected to logout
10/11/2015 22:09:10 --- Processing integer input
10/11/2015 22:09:20 --- User entered valid number --> 11114 <--
10/11/2015 22:09:20 --- Logged in as 11114
10/11/2015 22:09:20 --- Processing integer input
10/11/2015 22:09:23 --- User entered valid number --> 6 <--
10/11/2015 22:09:23 --- 11114 selected transfer
10/11/2015 22:09:23 --- Processing integer input
10/11/2015 22:09:24 --- User entered valid number --> 1 <--
10/11/2015 22:09:24 --- 11114 selected to transfer funds from their chequing account
10/11/2015 22:09:24 --- Processing input as double
10/11/2015 22:09:25 --- User entered valid double --> 55.000000 <--
10/11/2015 22:09:25 --- 11114 entered a valid transfer amount
10/11/2015 22:09:25 --- There will not be a bank fee for client number 11114
10/11/2015 22:09:25 --- 11114 successfully transferred $55.000000 without a fee
10/11/2015 22:09:25 --- Processing integer input
```

5. A customer tries to withdraw funds which they do not have

Welcome to my Banking System

By: Eric Bachmeier

0 - MAINTENANCE PERSON

1 - MANAGER

Enter a valid login ID (9 to quit): 11114

Welcome, Eric!

Please be advised you are \$78.32 in debt currently.

Your next bill will be for \$7.83.

You are set to automatically make a payment in 17 days.

What can we do for you, Eric?

1 - Close a chequing account

2 - Close a savings account

3 - Deposit

4 - Withdraw

5 - View Balances

6 - Transfer Money

7 - Make a purchase

8 - View Purchases

9 - Switch payment plan

10 - Logout

4

Which account would you like to withdraw funds from? (3 to cancel)

1 - Chequing

2 - Savings

1

How much money do you wish to withdraw from your chequing account? (0 to cancel)

3000

Error: Insufficient funds, you only have \$2945.00 in your chequing account.

How much money do you wish to withdraw from your chequing account? (0 to cancel)