Submitter: dereky1(Yang,Derek)

=====================================start of the write-up===================================

Problem 1


```
dereky1@elke-huebsch:~/45c/hw2                                    —    □    ✕

dereky1@elke-huebsch 21:23:44 ~
$ cd 45c/hw2
dereky1@elke-huebsch 21:23:49 ~/45c/hw2
$ g++ CoinMain.cpp -o CoinMain
dereky1@elke-huebsch 21:24:04 ~/45c/hw2
$ ./CoinMain
I started with 100 quarters, 10 dimes, 10 nickels, 100 pennies in my pocket
I bought a candy bar for 482 cents using 19 quarters, 0 dimes, 1 nickels, 2 penn
I have 81 quarters, 10 dimes, 9 nickels, 98 pennies left in my pocket
dereky1@elke-huebsch 21:24:08 ~/45c/hw2
$
```

Problem 2


```
dereky1@elke-huebsch:~/45c/hw2                                    —    □    ✕

dereky1@elke-huebsch 21:24:48 ~
$ cd 45c/hw2
dereky1@elke-huebsch 21:24:53 ~/45c/hw2
$ g++ CoinsMain.cpp -o CoinsMain
dereky1@elke-huebsch 21:25:08 ~/45c/hw2
$ CoinsMain

========start========
pocket: 5 quarters, 3 dimes, 6 nickels, 8 pennies
piggybank: 50 quarters, 50 dimes, 50 nickels, 50 pennies
========start========

You just bought a bag of Hot Cheetohs for 68 cents.
pocket: 3 quarters, 2 dimes, 5 nickels, 5 pennies
You take 16 quarters, 1 dimes, 0 nickels, 0 pennies from your piggybank and put
it into your pocket.
coins added: 16 quarters, 1 dimes, 0 nickels, 0 pennies
pocket:  19 quarters, 3 dimes, 5 nickels, 5 pennies
piggybank:  34 quarters, 49 dimes, 50 nickels, 50 pennies
You find 1 quarters, 2 dimes, 3 nickels, 4 pennies while vacuuming your couch an
d deposit it into your piggybank.
piggybank: 35 quarters, 51 dimes, 53 nickels, 54 pennies

========end========
pocket: 19 quarters, 3 dimes, 5 nickels, 5 pennies
piggybank: 35 quarters, 51 dimes, 53 nickels, 54 pennies
========end========

dereky1@elke-huebsch 21:25:11 ~/45c/hw2
$
```

Problem3

```
dereky1@elke-huebsch:~/45c/hw2                                    —    □    ✕

dereky1@elke-huebsch 21:25:39 ~
$ cd 45c/hw2
dereky1@elke-huebsch 21:25:47 ~/45c/hw2
$ g++ CoinsMenu.cpp -o CoinsMenu
dereky1@elke-huebsch 21:26:03 ~/45c/hw2
$ ./CoinsMenu
This is your first time with us, you need to initialize your account
How many quarters do you have? 10
How many dimes do you have? 10
How many nickel do you have? 10
How many pennies do you have? 10


 ====================
|   Digital  Bank    |
|                    |
| 1. Print Balance   |
| 2. Deposit         |
| 3. Withdraw        |
| 4. Quit            |
|                    |
 ====================
Enter command: 1
====================
Account Balance
====================
Coins: 10 quarters, 10 dimes, 10 nickels, 10 pennies
--------------------


 ====================
|   Digital  Bank    |
|                    |
| 1. Print Balance   |
| 2. Deposit         |
| 3. Withdraw        |
| 4. Quit            |
|                    |
 ====================
Enter command: █
```

Submitter: dereky1(Yang,Derek)

```
dereky1@elke-huebsch:~/45c/hw2                        —    ☐    ✕

====================
Coins: 10 quarters, 10 dimes, 10 nickels, 10 pennies
--------------------


  ==================
|    Digital  Bank    |
|                     |
| 1. Print Balance    |
| 2. Deposit          |
| 3. Withdraw         |
| 4. Quit             |
|                     |
  ==================
Enter command: 2
====================
Deposit Ammount
====================
Quarters? 10
Dimes? 10
Nickels? 10
Pennies? 10
====================
Depositing
====================
====================
Deposit Successful
====================
--------------------


  ==================
|    Digital  Bank    |
|                     |
| 1. Print Balance    |
| 2. Deposit          |
| 3. Withdraw         |
| 4. Quit             |
|                     |
  ==================
Enter command: 22
ERROR: INVALID COMMAND

  ==================
|    Digital  Bank    |
|                     |
| 1. Print Balance    |
| 2. Deposit          |
| 3. Withdraw         |
| 4. Quit             |
|                     |
  ==================
Enter command: █
```

Submitter: dereky1(Yang,Derek)

```
===================
|   Digital   Bank   |
|                    |
| 1. Print Balance   |
| 2. Deposit         |
| 3. Withdraw        |
| 4. Quit            |
|                    |
===================
Enter command: 1
===================
Account Balance
===================
Coins: 20 quarters, 20 dimes, 20 nickels, 20 pennies
--------------------


===================
|   Digital   Bank   |
|                    |
| 1. Print Balance   |
| 2. Deposit         |
| 3. Withdraw        |
| 4. Quit            |
|                    |
===================
Enter command: 3
===================
Withdraw
===================
How much money do you want to withdraw? 1000
===================
Withdrawing
===================
===================
Withdraw Unsuccessful
===================
ERROR: NOT ENOUGH MONEY
--------------------


===================
|   Digital   Bank   |
|                    |
| 1. Print Balance   |
| 2. Deposit         |
| 3. Withdraw        |
| 4. Quit            |
|                    |
===================
Enter command:
```

dereky1@elke-huebsch:~/45c/hw2   —   □   ✕

```
   ====================
|    Digital  Bank    |
|                     |
|  1. Print Balance   |
|  2. Deposit         |
|  3. Withdraw        |
|  4. Quit            |
|                     |
   ====================
Enter command: 1
====================
Account Balance
====================
Coins: 20 quarters, 20 dimes, 20 nickels, 20 pennies
--------------------


   ====================
|    Digital  Bank    |
|                     |
|  1. Print Balance   |
|  2. Deposit         |
|  3. Withdraw        |
|  4. Quit            |
|                     |
   ====================
Enter command: 3
====================
Withdraw
====================
How much money do you want to withdraw? 820
====================
Withdrawing
====================
====================
Withdraw Successful
====================
--------------------


   ====================
|    Digital  Bank    |
|                     |
|  1. Print Balance   |
|  2. Deposit         |
|  3. Withdraw        |
|  4. Quit            |
|                     |
   ====================
Enter command: █
```

Submitter: dereky1(Yang,Derek)

```
dereky1@elke-huebsch:~/45c/hw2                              —    □    ✕
===================
|    Digital  Bank    |
|                     |
| 1. Print Balance    |
| 2. Deposit          |
| 3. Withdraw         |
| 4. Quit             |
|                     |
===================
Enter command: 1
===================
Account Balance
===================
Coins: 0 quarters, 0 dimes, 0 nickels, 0 pennies
--------------------


===================
|    Digital  Bank    |
|                     |
| 1. Print Balance    |
| 2. Deposit          |
| 3. Withdraw         |
| 4. Quit             |
|                     |
===================
Enter command: 2
===================
Deposit Ammount
===================
Quarters? 1
Dimes? 1
Nickels? 1
Pennies? 1
===================
Depositing
===================
===================
Deposit Successful
===================
--------------------


===================
|    Digital  Bank    |
|                     |
| 1. Print Balance    |
| 2. Deposit          |
| 3. Withdraw         |
| 4. Quit             |
|                     |
===================
Enter command: █
```

Submitter: dereky1(Yang,Derek)

```
dereky1@elke-huebsch:~/45c/hw2                          —    □    ✕

===================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
===================
Enter command: 1
===================
Account Balance
===================
Coins: 1 quarters, 1 dimes, 1 nickels, 1 pennies
-------------------

===================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
===================
Enter command: 777
ERROR: INVALID COMMAND

===================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
===================
Enter command: 888
ERROR: INVALID COMMAND

===================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
===================
Enter command:
```

Submitter: dereky1(Yang,Derek)

dereky1@elke-huebsch:~/45c/hw2   —   □   ✕

```
====================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
====================
Enter command: 3
====================
Withdraw
====================
How much money do you want to withdraw? 41
====================
Withdrawing
====================
====================
Withdraw Successful
====================
--------------------


====================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
====================
Enter command: 1
====================
Account Balance
====================
Coins: 0 quarters, 0 dimes, 0 nickels, 0 pennies
--------------------


====================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
====================
Enter command:
```

Submitter: dereky1(Yang,Derek)

```
====================
|   Digital  Bank   |
|                   |
| 1. Print Balance  |
| 2. Deposit        |
| 3. Withdraw       |
| 4. Quit           |
|                   |
====================
Enter command: 4
====================
Thank You
Have a Nice Day!
====================


dereky1@elke-huebsch 21:38:12 ~/45c/hw2
$
```

==================================end of the write-up==================================