

Concordia University  
Comp 249 - Summer 2016  
Object Oriented programming II  
Assignment 1 - Sample run

**Note:** User input is highlighted

```
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
```

```
    Welcome to Wallet Application
```

```
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$|
```

```
What would you like to do?
```

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

```
Please enter your choice and press <Enter>:11
```

```
Sorry that is not a valid choice. Try again.
```

```
What would you like to do?
```

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

```
Please enter your choice and press <Enter>:1
```

```
Content of each wallet:
```

```
-----
```

```
Wallet #0:
```

```
5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x $1 + 1 x $2
```

```
MC-A. Alda-12/2017
```

```
Visa-B. Button-12/2015
```

```
Wallet #1:
```

```
5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x $1 + 1 x $2
```

```
MC-A. Alda-12/2017
```

Amex-C. Cohen-05/2016

Wallet #2:

5 x 5¢ + 5 x 10¢ + 5 x 25¢ + 5 x \$1 + 5 x \$2

Visa-D. Douglas-01/2018

Discover-C. Cohen-11/2016

TheBay-E. Eaton-03/2020

Wallet #3:

0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2

No credit cards

Wallet #4:

0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2

No credit cards

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:2

Which wallet to you want to see the content of? (Enter number 0 to 4): 5

Sorry but there is no wallet number 5

--> Try again: (Enter number 0 to 4): 4

0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2

No credit cards

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:3

List of wallets with same amount of money:

Wallets 0 and 1 both have 3.0

Wallets 0 and 3 both have 3.0

Wallets 0 and 4 both have 3.0

Wallets 1 and 3 both have 3.0  
Wallets 1 and 4 both have 3.0  
Wallets 3 and 4 both have 3.0

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:4

List of wallets with same coins:

Wallets 0 and 1 both have 5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x \$1 + 1 x \$2  
Wallets 3 and 4 both have 0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:5

List of wallets with same amount of money and same number of credit cards:

Wallets 0 and 1  
Wallets 3 and 4

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:6

Which wallet to you want to add a credit card to? (Enter number 0 to 4): 4

Please enter the following information so that we may complete the transaction-

```
--> Type of credit card (Mastercard, Visa, etc ..): Visa
--> Full name on credit card: Donald Duck
--> Expiry month number and year (separate by a space): 7 2017
You now have 1 credit cards
```

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 2

Which wallet to you want to see the content of? (Enter number 0 to 4): 4

0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2

Visa-Donald Duck-07/2017

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 7

Which wallet to you want to remove a credit card from? (Enter number 0 to 4): 3

Sorry that wallet has no cards

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 1

Content of each wallet:

-----

Wallet #0:

5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x \$1 + 1 x \$2  
MC-A. Alda-12/2017  
Visa-B. Button-12/2015

Wallet #1:  
5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x \$1 + 1 x \$2  
MC-A. Alda-12/2017  
Amex-C. Cohen-05/2016

Wallet #2:  
5 x 5¢ + 5 x 10¢ + 5 x 25¢ + 5 x \$1 + 5 x \$2  
Visa-D. Douglas-01/2018  
Discover-C. Cohen-11/2016  
TheBay-E. Eaton-03/2020

Wallet #3:  
0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2  
No credit cards

Wallet #4:  
0 x 5¢ + 1 x 10¢ + 1 x 25¢ + 1 x \$1 + 1 x \$2  
Visa-Donald Duck-07/2017

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 7

Which wallet to you want to remove a credit card from? (Enter number 0 to 4): 1  
(Enter number 0 to 1):

0

Card was removed successfully

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:



2

Which wallet to you want to see the content of? (Enter number 0 to 4): 1

5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x \$1 + 1 x \$2

Amex-C. Cohen-05/2016

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:8

Which wallet to you want to update a credit card from? (Enter number 0 to 4): 1

Which card to you want to update? (Enter number 0 to 0):

1

Sorry but there is no card number 1

--> Try again:

(Enter number 0 to 0):

0

--> Enter new expiry month number and year (separate by a space): 5 2020

Expiry date updated.

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>:2

Which wallet to you want to see the content of? (Enter number 0 to 4): 1

5 x 5¢ + 1 x 10¢ + 0 x 25¢ + 1 x \$1 + 1 x \$2

Amex-C. Cohen-05/2020

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet

8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 9

Which wallet to you want to add coins to? (Enter number 0 to 4): 3

How many nickels, dimes, quarters, loonies and toonies do you want to add?

Enter 5 numbers separated by a space): 0 1 2 3 4

You now have \$14.0

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 2

Which wallet to you want to see the content of? (Enter number 0 to 4): 3

0 x 5¢ + 2 x 10¢ + 3 x 25¢ + 4 x \$1 + 5 x \$2

No credit cards

What would you like to do?

1. See the content of all wallets
2. See the content of one wallet
3. List wallets with same amount of money
4. List wallets with same coins
5. List wallets with same amount of money and same number of credit cards
6. Add a credit card to an existing wallet
7. Remove an existing credit card from a wallet
8. Update the expiry date of an existing credit card
9. Add coins to a wallet
0. To quit

Please enter your choice and press <Enter>: 0

Thank you for using wallet application