

```
*****
*****Welcome to our Accounting System!*****
*****
Please indicate your choice
1. sign up
2. sign in
3. exit
1
Please set your username: joyce
Please set your password:
Please confirm your password:
Initiating accouting system:
Cash: 100
Debit Card: 200
Credit Card: 300
You have signed up! Please sign in to start account management.
Username: joyce
Password:

Hello joyce!

You don't have your budget yet. Please set a budget!Please indicate your choice to start account
management:
1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts information
9. Exit
1
```

Below illustrate the functions of

1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts information
9. Exit

New user signs up and signs in

Add new user's information to userinfo.txt and initial the account information



Sign up and

5.set budget

```
Username:
joyce
Password:

Hello joyce!

You don't have your budget yet. Please set a budget!

Please indicate your choice to start account management:
1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit
5
Please type in the date in the format mm yyyy: 03 2000
Reset your total budget as: 400

New budget set!
Continue management? (y/n)
```

1.Add records

Remain budget information will be automatically update

```
Please set budget for a new month!

Please indicate your choice to start account management:
1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit
1
Please choose new record type:
1. Expense (please type "-")
2. Income (please type "+")
-
Please type in the amount of the new record: 100
Please type in the date in the format dd mm yyyy: 03 03 2000
Please choose the type from following:
1.Breakfast    2.Dinner      3.Snacks      4.Grocery      5.Social
6.Lunch        7.Beverages   8.Traffic     9.Fun          10.Clothing
11.Shopping    12.Gifts      13.Medical    14.Investment_Expense  15.Transfer
16.Rent        17.Cash_Gift  18.Mobile_Bill  19.Visa        20.Other_Expense
1
Please choose account type:
1.Cash
2.Debit Card
3.Credit Card
1
Record added!
Continue management? (y/n)
y

Remain Budget 300 / Total Budget 400
```

Account information update

(First line is initial values)

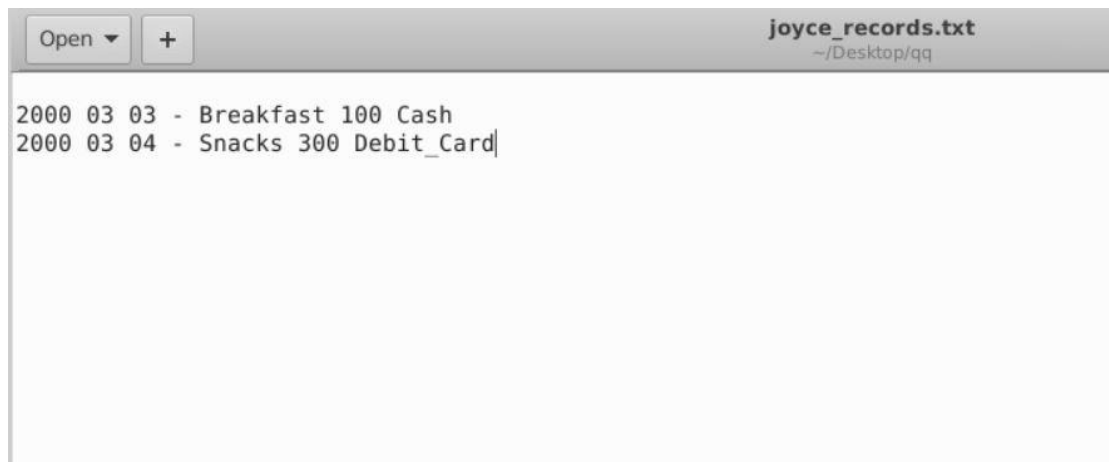


The screenshot shows a text editor with two tabs: 'joyce_records.txt' and 'joyce_account.txt'. The 'joyce_account.txt' tab is active and displays the following text:

```
100 200 300
Cash 0
Debit_Card 200
Credit_Card 300
```

The bottom of the window shows a status bar with 'Plain Text' and 'Tab W'.

After adding another record



The image shows a text editor window with a title bar that reads "joyce_records.txt" and a subtitle "~/.Desktop/qq". The window contains two lines of text: "2000 03 03 - Breakfast 100 Cash" and "2000 03 04 - Snacks 300 Debit_Card". The text is displayed in a monospaced font. The window has a standard macOS-style title bar with "Open" and "+" buttons.

```
2000 03 03 - Breakfast 100 Cash
2000 03 04 - Snacks 300 Debit_Card
```

6.Request yearly report

```
6. Report
7. Latest
8. Accounts Information
9. Exit
6
Please indicate your choice:
1. Year report
2. Month report
1
Year report:
Total balance of this year: -400
Total income: 0
Total expense: 400

Expense type / total expense:
Breakfast          25.00% 100.00
Dinner              0.00% 0.00
Snacks              75.00% 300.00
Grocery             0.00% 0.00
Social              0.00% 0.00
Lunch               0.00% 0.00
Beverages           0.00% 0.00
Traffic             0.00% 0.00
Fun                 0.00% 0.00
Clothing            0.00% 0.00
Shopping            0.00% 0.00
Gifts               0.00% 0.00
Medical             0.00% 0.00
Investment_Expense 0.00% 0.00
Transfer            0.00% 0.00
Rent                0.00% 0.00
Cash_Gift           0.00% 0.00
Mobile_Bill         0.00% 0.00
Visa                0.00% 0.00
Other Expense       0.00% 0.00
```

7. Print out the latest 7 days' graph

```
Remain Budget 0 / Total Budget 400

Please indicate your choice to start account management:
1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit
7
Please type in the date of today in the format dd mm yyyy:
05 03 2000
You wish one '+' represents $100
So one '-' represents -$100
2000 03 04 ---
2000 03 03 -
2000 03 02
2000 03 01
2000 02 29
2000 02 28
2000 02 27
Continue management? (y/n)
_
```

8. Request account information

```
y
Remain Budget 0 / Total Budget 400

Please indicate your choice to start account management:
1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit
8

Account information of joyce:
Initial accounts information: 100 200 300
Cash 0
Debit_Card -100
Credit_Card 300

Continue management? (y/n)
█
```

2.Check &further check

```
8. Accounts Information
9. Exit
2
Please indicate the way you are searching by:
1. Type
2. Date
3. Account
4. Simply list recent records
2
Please type in the date in the format dd mm yyyy: 03 03 2000

1.2000 03 03 - Breakfast 100 Cash

1.Further check
2.No need for further check
1
Please indicate the way you are searching by:
1. Type
2. Date
3. Account
4. Simply list recent records
1
Searching for expense(please type "-") or income(please type "+")?
-
Please type in the type your search by:
1.Breakfast      2.Dinner      3.Snacks      4.Grocery      5.Social
6.Lunch          7.Beverages   8.Traffic     9.Fun          10.Clothing
11.Shopping      12.Gifts      13.Medical    14.Investment_Expense  15.Transfer
16.Rent          17.Cash_Gift  18.Mobile_Bill  19.Visa        20.Other_
1
1.2000 03 03 - Breakfast 100 Cash

1.Further check
2.No need for further check
```


3.Edit records

Please indicate your choice to start account management:

1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit

3

Please specify the record you want to edit by check it;

Please indicate the way you are searching by:

1. Type
2. Date
3. Account
4. Simply list recent records

3

Please type in the account you search by:

1. Cash
2. Debit Card
3. Credit Card

1

1.2000 03 03 - Breakfast 100 Cash

- 1.Further check
- 2.No need for further check

2

Have you found the record you are looking for?

- 1.No, check again
- 2.Yes, stop checking
- 3.Leave

2

Please type in the index of the record you want to edit: 1

2000 03 03 - Breakfast 100 Cash
1 2 3 4 5 6 7

Please choose the dimensions you want to edit(separated by white space):
(!Notice: edit dimension 4 will automatically edit dimension 5)

5

Edit dimension 5:(please type in index)

1.Breakfast	2.Dinner	3.Snacks	4.Grocery	5.Social
6.Lunch	7.Beverages	8.Traffic	9.Fun	10.Clothing
11.Shopping	12.Gifts	13.Medical	14.Investment_Expense	15.Transfer
16.Rent	17.Cash_Gift	18.Mobile_Bill	19.Visa	20.Other_Expense

2

Record edited!

Continue management? (y/n)



4.delete and

9.exit

```
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit
4
Please specify the record you want to delete by check it;
Please indicate the way you are searching by:
1. Type
2. Date
3. Account
4. Simply list recent records
2
Please type in the date in the format dd mm yyyy: 04 03 2000

1.2000 03 04 - Snacks 300 Debit_Card

1.Further check
2.No need for further check
2

Have you found the record you are looking for?
1.No, check again
2.Yes, stop checking
3.Leave
2
How many of records listed above you want to delete? 1
Please type in the indexes of the records you want to delete(separated by white space): 1
Record(s) deleted!
Continue management? (y/n)
y

Remain Budget 300.00 / Total Budget 400.00
```

```
4. Simply list recent records
2
Please type in the date in the format dd mm yyyy: 04 03 2000

1.2000 03 04 - Snacks 300 Debit_Card

1.Further check
2.No need for further check
2

Have you found the record you are looking for?
1.No, check again
2.Yes, stop checking
3.Leave
2
How many of records listed above you want to delete? 1
Please type in the indexes of the records you want to delete(separated by white space): 1
Record(s) deleted!
Continue management? (y/n)
y

Remain Budget 300.00 / Total Budget 400.00

Please indicate your choice to start account management:
1. Add
2. Check
3. Edit
4. Delete
5. Set Budget
6. Report
7. Latest
8. Accounts Information
9. Exit
9
Bye bye!
h3553356@academy21:~/Desktop/qq$
```

