

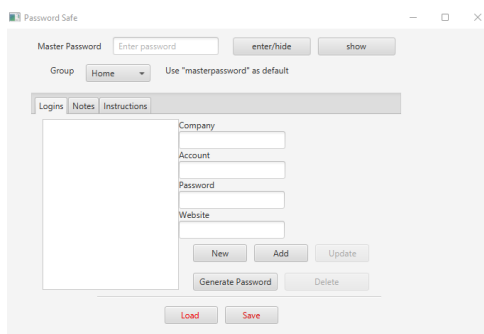
## Section 1: Background

This document briefly describes the program “Safe” which is used to encrypt and store logins and notes into a computer.

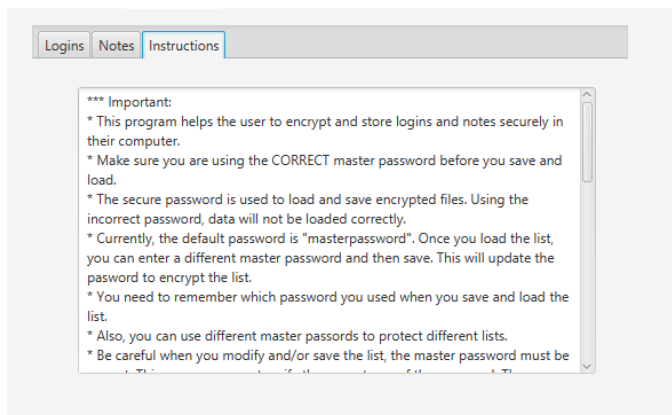
In this program, we have already entered some logins and notes in advance. When you first start the program, you can enter the default password “masterpassword”. Then you can start to load the information.

The following are screenshots of the program:

Screenshot 1: First screen



Screenshot 2: Instructions menu



Screenshot 3: After entering the default password, and press load, we load the list.

The screenshot shows the Password Safe application window. At the top, there is a 'Master Password' field containing 'masterpassword' and buttons for 'enter/hide' and 'show'. Below this is a 'Group' dropdown menu set to 'Home'. A tabbed interface shows 'Logins', 'Notes', and 'Instructions'. The 'Logins' tab is active, displaying a list of logins: 'abc', 'apple', 'bbc', 'sony', 'Xbox', and 'Wendy'. The 'apple' login is selected, showing details for 'Company' (apple), 'Account' (Account), 'Password' (password4bob), and 'Website' (apple.com). At the bottom, there are buttons for 'New', 'Add', 'Update', 'Generate Password', and 'Delete'. At the very bottom, there are 'Load' and 'Save' buttons.

Can try different group and notes.

The screenshot shows the Password Safe application window with the 'Group' dropdown menu set to 'School'. The 'Logins' tab is active, displaying a list of logins: 'chruchill' and 'lordbyng'. The 'chruchill' login is selected, showing details for 'Company' (chruchill), 'Account' (student1), 'Password' (pchurchill), and 'Website' (churchill.ca). At the bottom, there are buttons for 'New', 'Add', 'Update', 'Generate Password', and 'Delete'. At the very bottom, there are 'Load' and 'Save' buttons.

The screenshot shows the Password Safe application window with the 'Group' dropdown menu set to 'School'. The 'Notes' tab is active, displaying a list of notes: 'mySchool1', 'mySchool2', 'mySchool3', and 'mySchool4'. The 'mySchool2' note is selected, showing details for 'Title' (mySchool2) and 'Notes' (new notes for school 2). At the bottom, there are buttons for 'New', 'Add', 'Delete', and 'Update'. At the very bottom, there are 'Load' and 'Save' buttons.

Screenshots: You can press new to enter new entries, or delete or update existing entries:

The screenshot shows the application interface with the 'Master Password' field set to 'masterpassword' and the 'enter/hide' and 'show' buttons. The 'Group' dropdown is set to 'School'. The 'Logins' tab is selected, and the 'Notes' sub-tab is active. A list of schools is shown on the left, with 'mySchool4' selected. The 'Notes' field for 'mySchool4' contains the text 'new notes'. The 'New', 'Add', 'Delete', and 'Update' buttons are visible at the bottom of the form, along with 'Load' and 'Save' buttons.

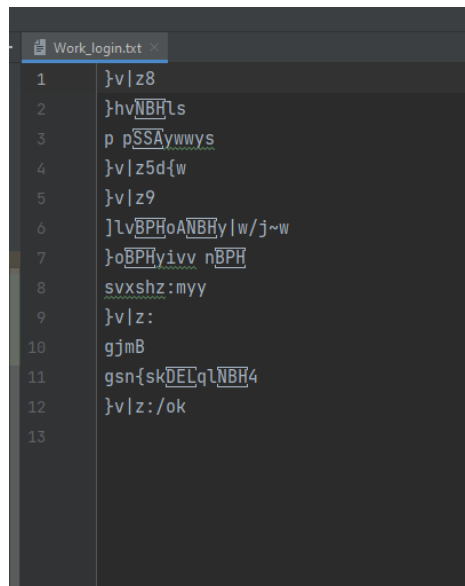
After addition

The screenshot shows the application interface after adding a new note. The 'Master Password' field is still 'masterpassword'. The 'Group' dropdown is 'School'. The 'Logins' tab is selected, and the 'Notes' sub-tab is active. The list of schools on the left now includes 'mySchool5', which is selected. The 'Notes' field for 'mySchool5' contains the text 'new notes'. The 'New', 'Add', 'Delete', and 'Update' buttons are visible at the bottom of the form, along with 'Load' and 'Save' buttons.

After deletion

The screenshot shows the application interface after deleting 'mySchool5'. The 'Master Password' field is still 'masterpassword'. The 'Group' dropdown is 'School'. The 'Logins' tab is selected, and the 'Notes' sub-tab is active. The list of schools on the left now only includes 'mySchool2', 'mySchool3', 'mySchool4', and 'mySchool5'. The 'Notes' field for 'mySchool5' is empty. The 'New', 'Add', 'Delete', and 'Update' buttons are visible at the bottom of the form, along with 'Load' and 'Save' buttons.

Screenshot: Example of stored encrypted file:

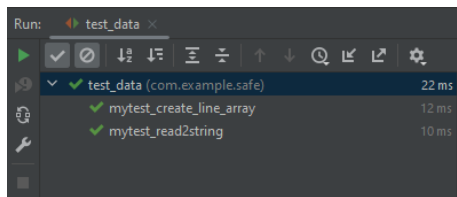
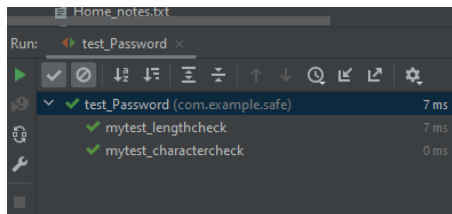
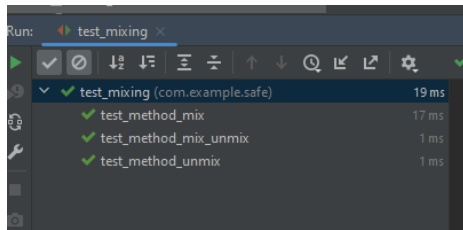


The screenshot shows a text editor window with a dark background. The title bar at the top reads 'Work\_login.txt'. The editor contains 13 lines of text, each starting with a line number on the left. The text is a mix of lowercase letters, numbers, and special characters, appearing to be encrypted or obfuscated. The lines are as follows:

```
1 }v|z8
2 }hvNBHls
3 p pSSAyywys
4 }v|z5d{w
5 }v|z9
6 ]lvBPHoANBHylw/j~w
7 }oBPHyivv nBPH
8 svxshz:myy
9 }v|z:
10 gjmB
11 gsn{skDEqLNBH4
12 }v|z:/ok
13
```

## Section 2: Test outcomes:

All tests run successfully. See the following screenshots



## Section 3: Instructions:

```
*** Important:
* This program helps the user to encrypt and store logins and notes securely
in their computer.
* Make sure you are using the CORRECT master password before you save and
load.
* The secure password is used to load and save encrypted files. Using the
incorrect password, data will not be loaded correctly.
* Currently, the default password is "masterpassword". Once you load the
list, you can enter a different master password and then save. This will
update the password to encrypt the list.
* You need to remember which password you used when you save and load the
list.
* Also, you can use different master passwords to protect different lists.
* Be careful when you modify and/or save the list, the master password must
be correct. This program cannot verify the correctness of the password. The
user must remember the master password.
*****
*****

1) To save an (encrypted) list to a file
    a) Choose the group name (e.g. home) and make sure the password is
correct
    b) Click the save button
    c) The current list (login or notes) will save to a file
2) To load the list from a file
    a) Choose the group name and make sure the password is correct
    b) Click the load button
    c) The list (login or notes) will be loaded
3) To add an item (login or note) to a list
    a) Choose the group name
    b) Enter the item information and press add button. The list will be
automatically saved.
4) To delete an item from a list
    a) Select the item from the list.
    b) Press delete and the item will be removed from the current list. The
list will be automatically saved.
5) Using Save button:
    a) Normally, when you add, delete, or update, all changes will be saved
automatically.
    b) However, if you want to change the password used to encrypt the data,
you can also change the password and then press save.

6) Using the menu selection:
    a) Choosing the menu item by itself will not load any data.
    b) So remember to press load / save to load and save.
```

