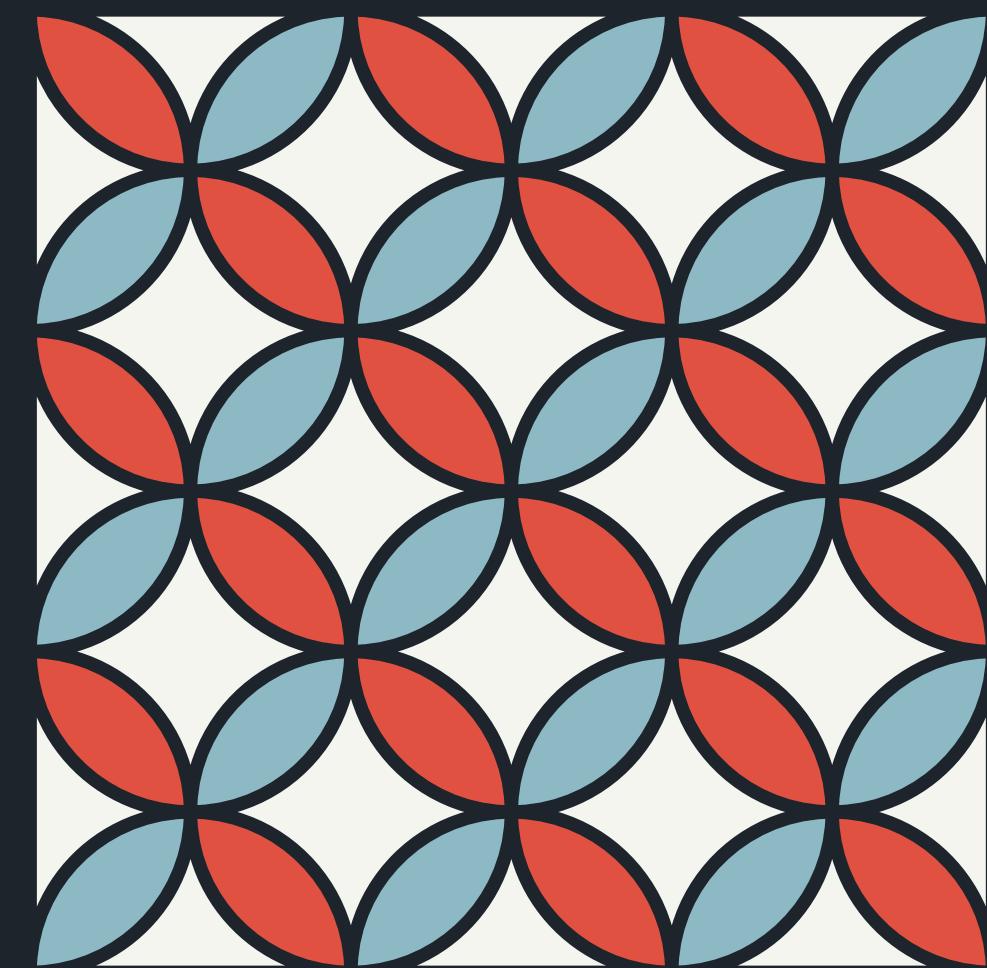
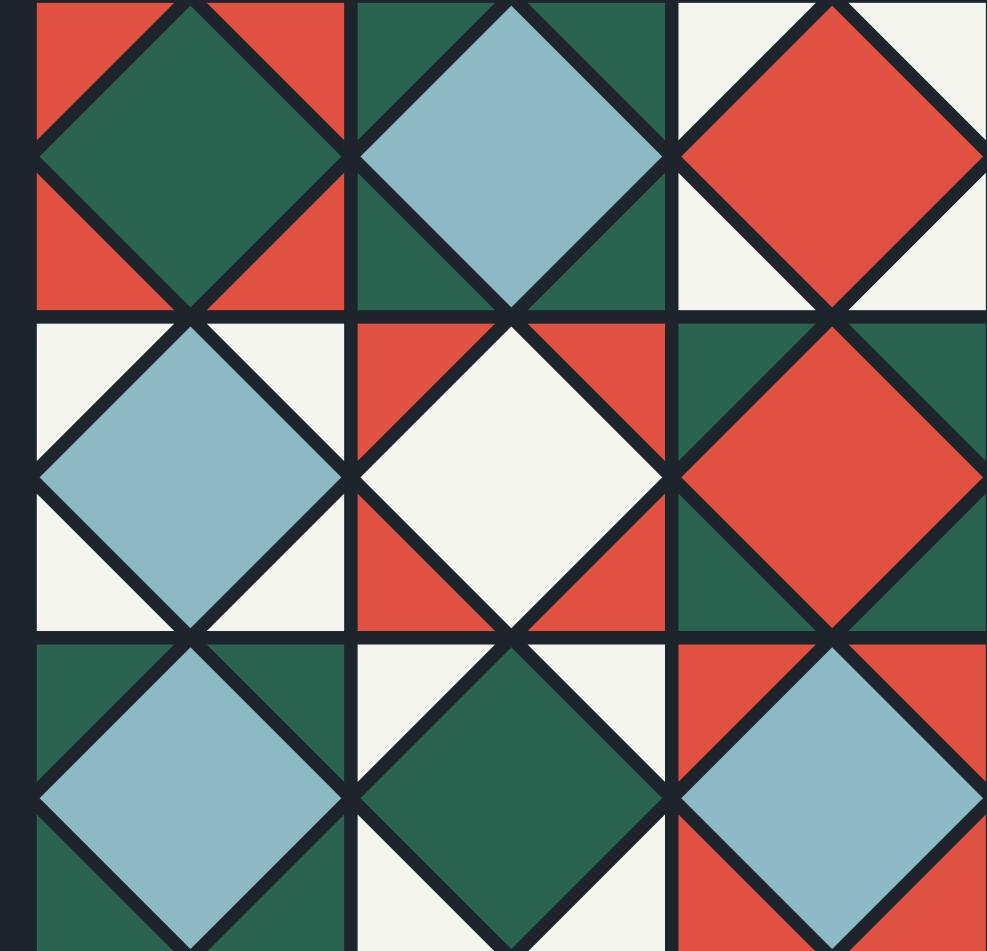
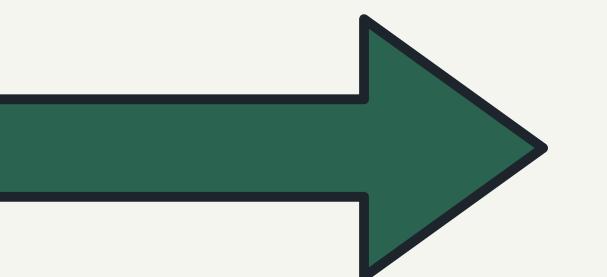
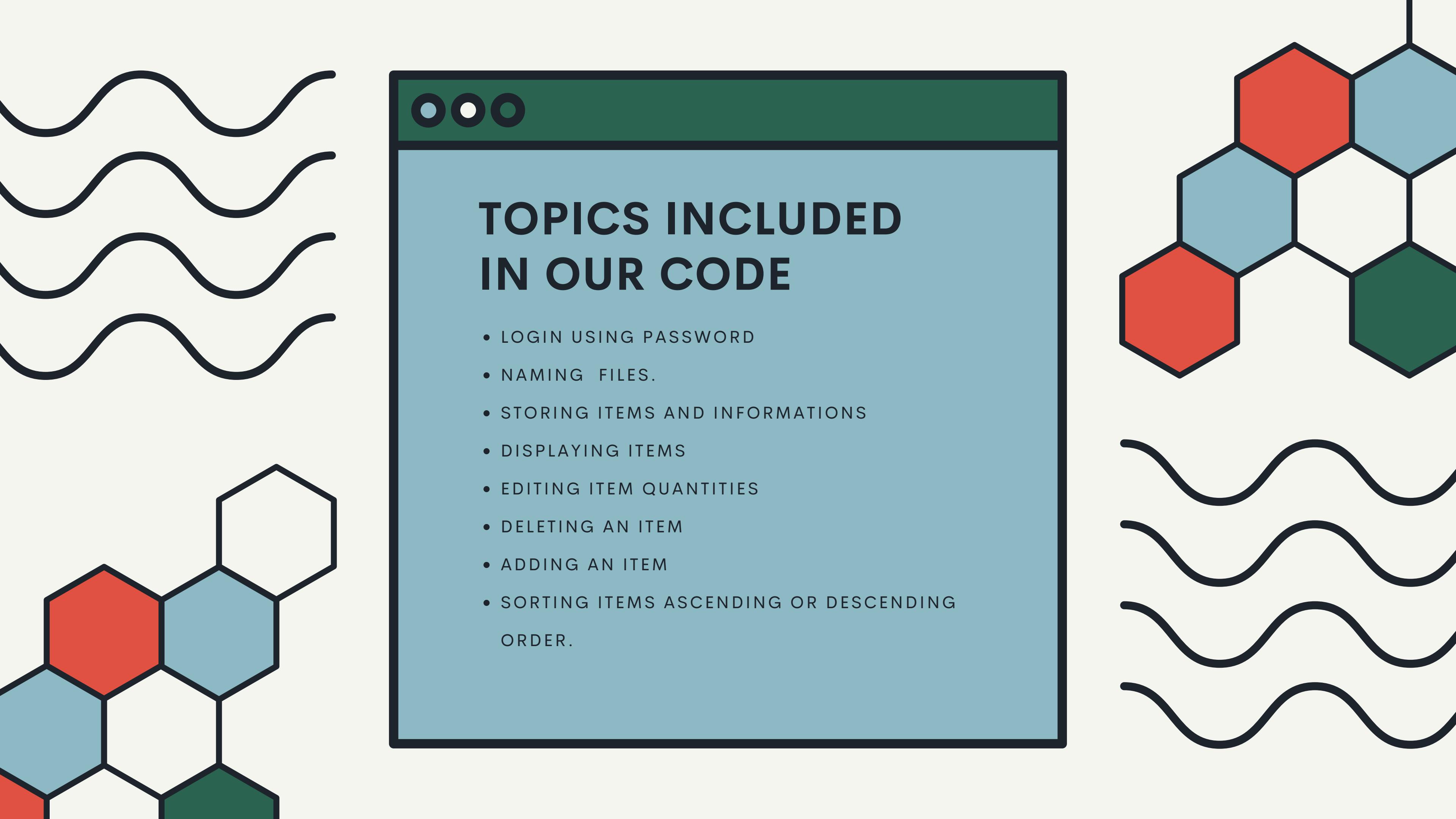


DIGITAL SKILLS FINAL PROJECT GROUP 3

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TOPICS INCLUDED IN OUR CODE

- LOGIN USING PASSWORD
- NAMING FILES.
- STORING ITEMS AND INFORMATIONS
- DISPLAYING ITEMS
- EDITING ITEM QUANTITIES
- DELETING AN ITEM
- ADDING AN ITEM
- SORTING ITEMS ASCENDING OR DESCENDING ORDER.

EXPECTATIONS AND OUTCOMES

A code that fulfills the needs of this project , developing algorithms and applying concepts learned in class , implementing the designed algorithm in python language (using programming language constructs such variables ,expressions , assignments statements ,if statements ,loops ,functions ,arrays list and etc.)

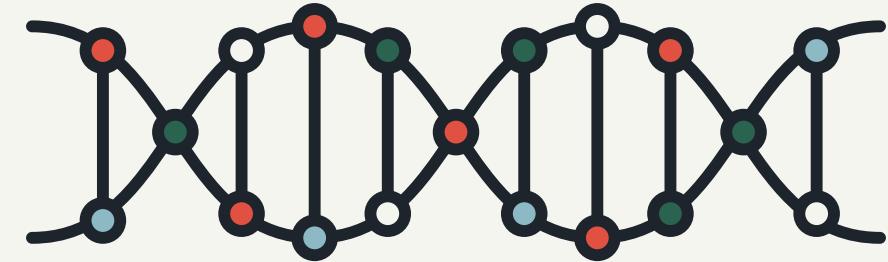
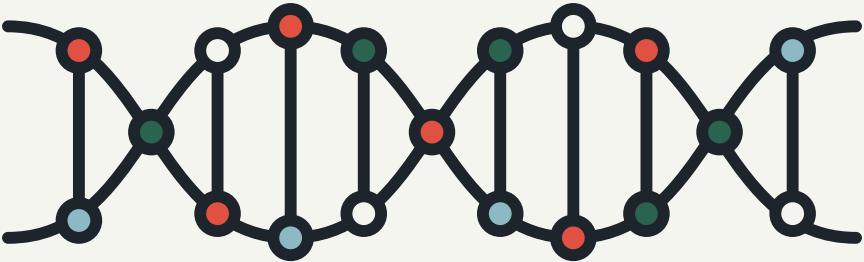


```
import os
options_list = ["Store item information.", "Display items of the same type.",
                 "Edit an item.", "Delete an item.", "Add an item.", "Sort items."]
makeup_list = []

def log_in():
```

★ FIRST THREE LINES OF THE
CODE MAKE THE LIST

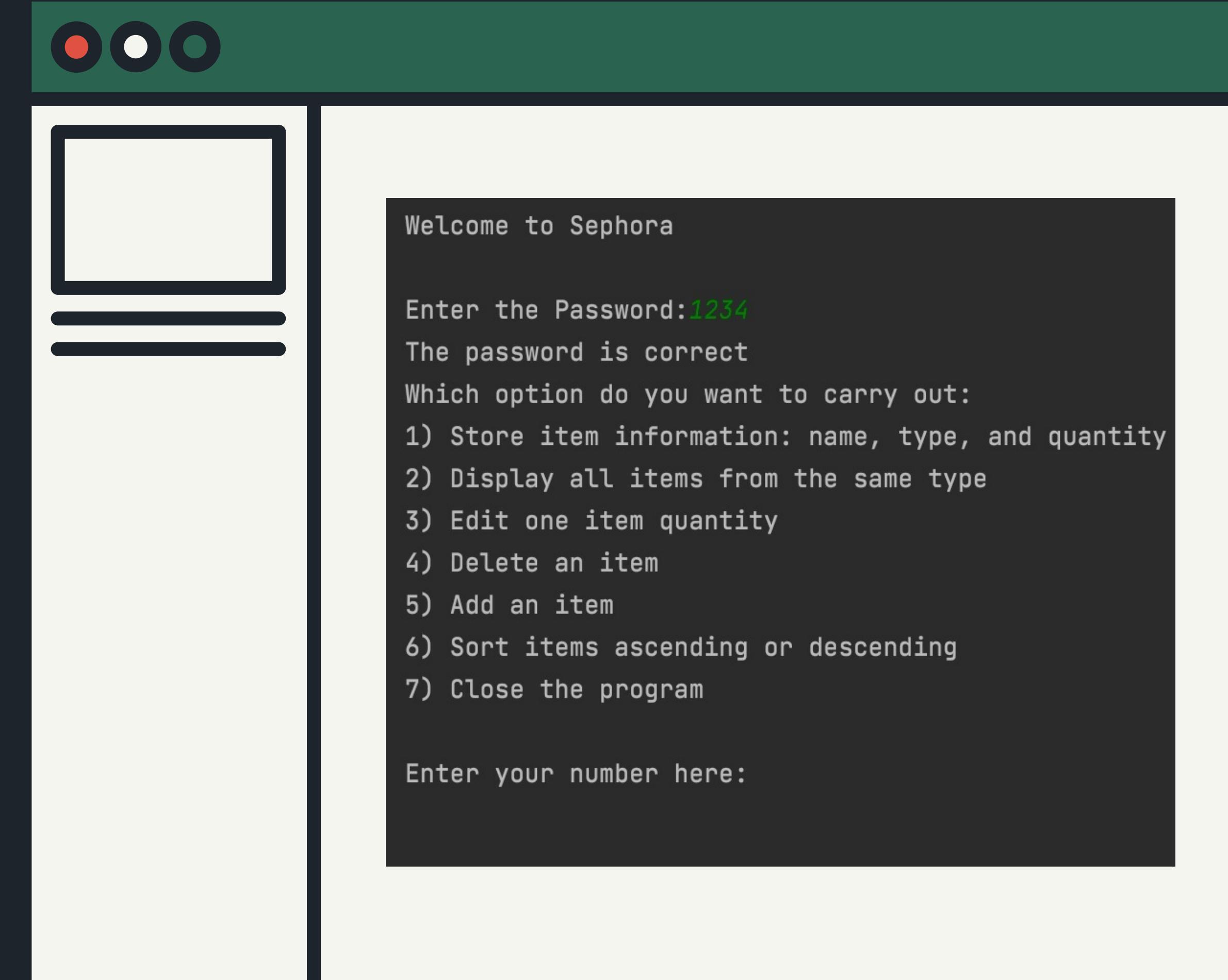




```
def log_in():
    PASSWORD = '1234'
    entered_password = str(input('Enter the Password:'))
    while entered_password != PASSWORD:
        print('The password is incorrect')
        print('')
        entered_password = str(input('Enter the Password again:'))
    print('The password is correct')
```

FUNCTION FOR LOGGING IN USING THE PASSWORD

FUNCTION FOR LOGGING IN USING THE PASSWORD RUNNED CODE





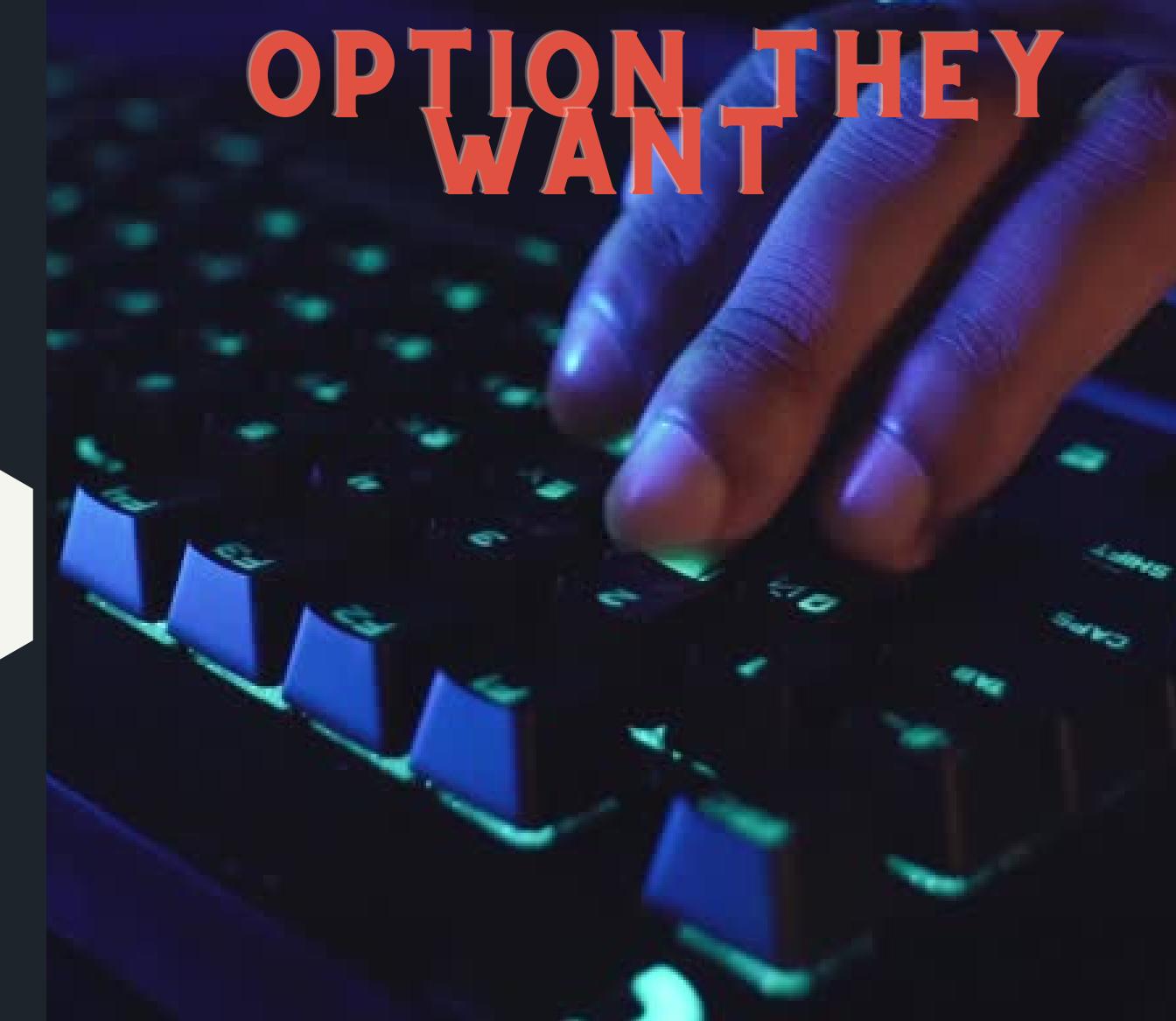
DO YOU HAVE QUESTIONS SO FAR?

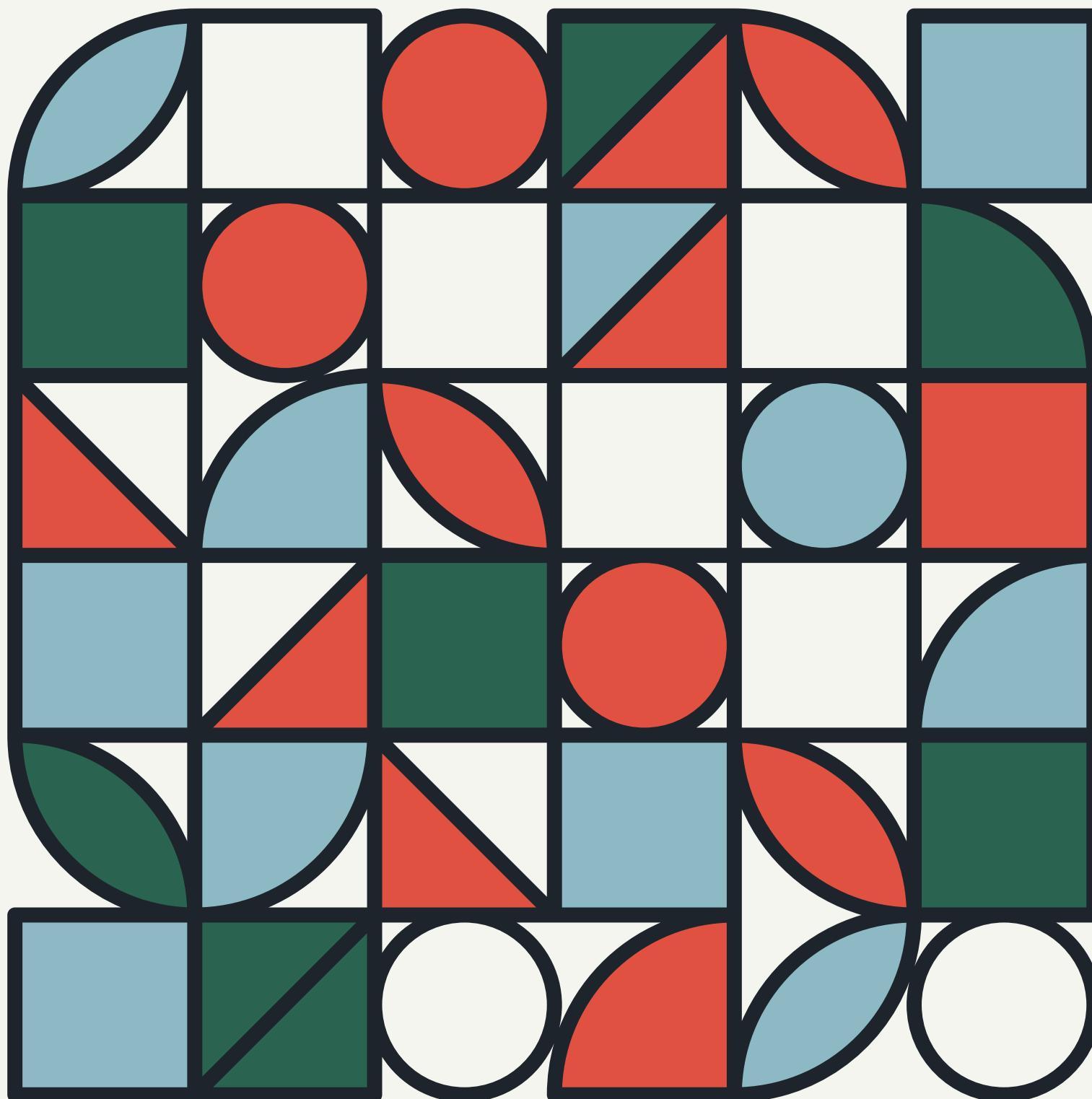
FUNCTION THAT ALLOWS THE USER TO CHOOSE THE OPTION THEY WANT

```
def choosing_option():
    print('Which option do you want to carry out:\n'
          "'1) Store item information: name, type, and quantity\n'"
          "'2) Display all items from the same type \n'"
          "'3) Edit one item quantity\n'"
          "'4) Delete an item\n'"
          "'5) Add an item\n'"
          "'6) Sort items ascending or descending\n'"
          "'7) Close the program\n'")

choosing_option = input('Enter your number here: ')

if choosing_option == '1':
    store()
elif choosing_option == '2':
    display()
elif choosing_option == '3':
    edit()
elif choosing_option == '4':
    delete()
elif choosing_option == '5':
    add()
elif choosing_option == '6':
    sort()
else:
    exit_program()
```



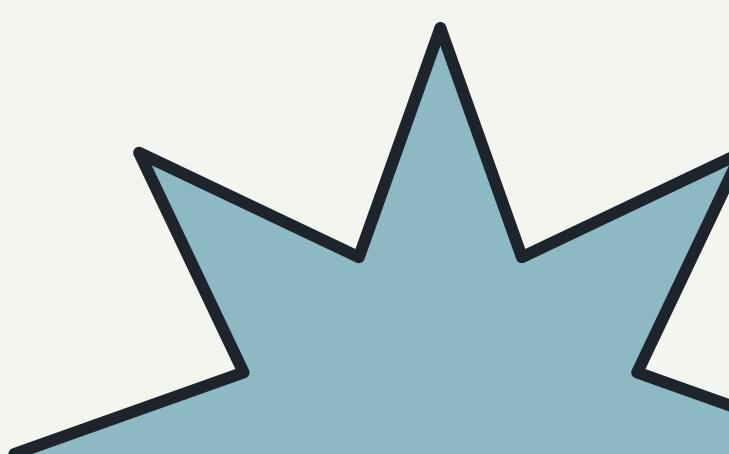
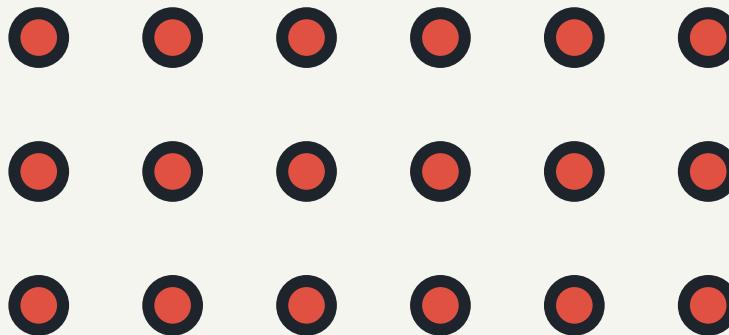


Which option do you want to carry out:

- 1) Store item information: name, type, and quantity
- 2) Display all items from the same type
- 3) Edit one item quantity
- 4) Delete an item
- 5) Add an item
- 6) Sort items ascending or descending
- 7) Close the program

Enter your number here:

THE RUN



```
def store():
    makeup_file = open('makeup.txt', 'w')
    print('Enter the following data for the makeup products:')
    answer = 'y'

    while answer == 'y' or answer == 'Y':
        makeup = str(input('Enter the name of the product:'))
        type = str(input('Enter the type of the product (face,eye,lip):'))
        quantity = str(input('Enter the quantity of the product:'))
        print()

        makeup_file.write(str(makeup + '\n'))
        makeup_file.write(str(type + '\n'))
        makeup_file.write(str(quantity) + '\n')

    answer = input('Do you want to add another product? (yes = y,no = n)')

makeup_file.close()
print('The information has been saved in makeup.txt :)')
```

**FUNCTION THAT ALLOWS THE USER TO
STORE THE PRODUCT'S INFORMATION
:NAME , TYPE AND QUANTITY**

THE RUN

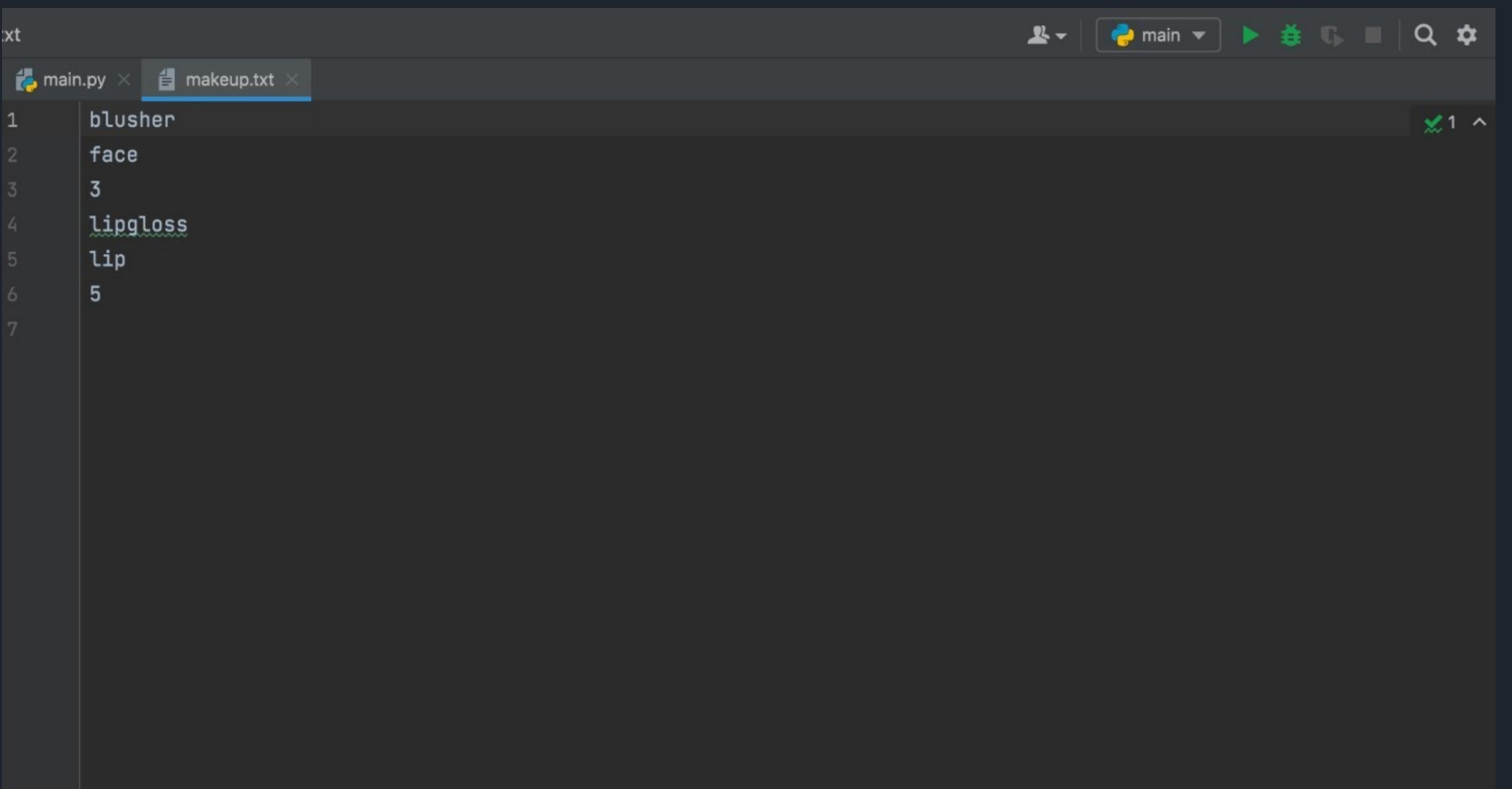
```
Enter the Password:1234
The password is correct
Which option do you want to carry out:
1) Store item information: name, type, and quantity
2) Display all items from the same type
3) Edit one item quantity
4) Delete an item
5) Add an item
6) Sort items ascending or descending
7) Close the program

Enter your number here: 1
Enter the following data for the makeup products:
Enter the name of the product:blusher
Enter the type of the product (face,eye,lip):face
Enter the quantity of the product:3

Do you want to add another product? (yes = y,no = n)y
Enter the name of the product:lipgloss
Enter the type of the product (face,eye,lip):lip
Enter the quantity of the product:5

Do you want to add another product? (yes = y,no = n)n
The information has been saved in makeup.txt :)
Do you want to carry out another option? (yes = y, no = n) n
Closing the Program . . .

Process finished with exit code 0
```



The image shows a dark-themed code editor window with two tabs: "main.py" and "makeup.txt". The "makeup.txt" tab is active, displaying the following content:

```
1 blusher
2 face
3
4 lipgloss
5 lip
6
7
```

IN THE FILE MAKEUP.TXT

FUNCTION FOR EDITING A PRODUCT'S QUANTITY

```
def edit():
    found = False

    search = input('Enter a description to search for: ')
    new_quantity = int(input('Enter the new quantity: '))

    makeup_file = open('makeup.txt', 'r')
    temp_file = open('temp.txt', 'w')

    name = makeup_file.readline()

    while name != '':
        type = makeup_file.readline()
        quantity = makeup_file.readline()
        name = name.rstrip('\n')
        type = type.rstrip('\n')
        quantity = quantity.rstrip('\n')

        if name == search:
            temp_file.write(name + '\n')
            temp_file.write(type + '\n')
            temp_file.write(str(new_quantity) + '\n')

            found = True
        else:
            temp_file.write(name + '\n')
            temp_file.write(type + '\n')
            temp_file.write(str(quantity) + '\n')
```



```
name = makeup_file.readline()

makeup_file.close()
temp_file.close()
os.remove('makeup.txt')
os.rename('temp.txt', 'makeup.txt')

if found:
    print('The file has been updated.')
else:
    print('That item was not found in the file.')
```

PART OF THE FUNCTION
EDIT()

THE RUN

```
/Users/ameeraattiah/PycharmProjects/CS_project/venv/bin/python /Users/ameeraattiah/PycharmProjects/CS_project/main.py  
Welcome to Sephora
```

```
Enter the Password:1234
```

```
The password is correct
```

```
Which option do you want to carry out:
```

- 1) Store item information: name, type, and quantity
- 2) Display all items from the same type
- 3) Edit one item quantity
- 4) Delete an item
- 5) Add an item
- 6) Sort items ascending or descending
- 7) Close the program

```
Enter your number here: 3
```

```
Enter a description to search for: lipgloss
```

```
Enter the new quantity: 9
```

```
The file has been updated.
```

```
Do you want to carry out another option? (yes = y, no = n) n
```

```
Closing the Program . . .
```

```
Process finished with exit code 0
```

```
|
```

p.txt

main.py

makeup.txt

```
1 blusher
2 face
3
4 lipgloss
5 lip
6 9
```

IN THE FILE



The code editor shows two files: `main.py` and `makeup.txt`. The `main.py` file contains the following code:

```
122 def delete():
123     found = False
124     search = input('which product do you want to delete? ')
125     makeup_file = open('makeup.txt', 'r')
126     temp_file = open('temp.txt', 'w')
127     descr = makeup_file.readline()
128     while descr != '':
129         qty = str(makeup_file.readline())
130         descr = descr.rstrip('\n')
131         if descr != search:
132             temp_file.write(descr + '\n')
133             temp_file.write(str(qty) + '\n')
134         else:
135             found = True
136         descr = makeup_file.readline()
137     makeup_file.close()
138     temp_file.close()
139     os.remove('makeup.txt')
140     os.rename('temp.txt', 'makeup.txt')
141     if found:
142         print('the file has been updated.')
143     else:
144         print('that item was not found in the file.')
145
```

THE FUNCTION FOR DELETING A PRODUCT



THE RUN

```
main ×  
/Users/ameeraattiah/PycharmProjects/CS_project/venv/bin/python /Users/ameeraattiah/PycharmProjects/CS_project/main.py  
Welcome to Sephora  
  
Enter the Password:1234  
The password is correct  
Which option do you want to carry out:  
1) Store item information: name, type, and quantity  
2) Display all items from the same type  
3) Edit one item quantity  
4) Delete an item  
5) Add an item  
6) Sort items ascending or descending  
7) Close the program  
  
Enter your number here: 4  
which product do you want to delete? blusher  
the file has been updated.  
Do you want to carry out another option? (yes = y, no = n) n  
Closing the Program . . .  
  
Process finished with exit code 0
```

IN THE FILE



A screenshot of a code editor interface. At the top, there is a dark green header bar with three circular icons: red, white, and teal. Below the header, the code editor shows two tabs: "main.py" and "makeup.txt". The "makeup.txt" tab is currently active, indicated by a blue underline. The content of the "makeup.txt" file is as follows:

```
.txt
main.py × makeup.txt ×
1 3
2 lipgloss
3
4 lip
5 9
6
7 |
```

THE FUNCTION FOR ADDING A PRODUCT

```
main.py × makeup.txt ×
145
146     def add():
147         makeup_file = open('makeup.txt', 'a')
148         answer = 'y'
149         while answer == 'y' or answer == 'Y':
150             makeup = str(input('Enter the name of the product:'))
151
152             type = str(input('Enter the type of the product (face,eye,lip):'))
153
154             quantity = str(input('Enter the quantity of the product:'))
155
156             print()
157
158             makeup_file.write(str(makeup + '\n'))
159             makeup_file.write(str(type + '\n'))
160             makeup_file.write(str(quantity) + '\n')
161
162         answer = input('Do you want to add another product? (yes = y, no = n) ')
163
164         makeup_file.close()
165         print('The information has been saved in makeup.txt :)')
166
```

THE RUN

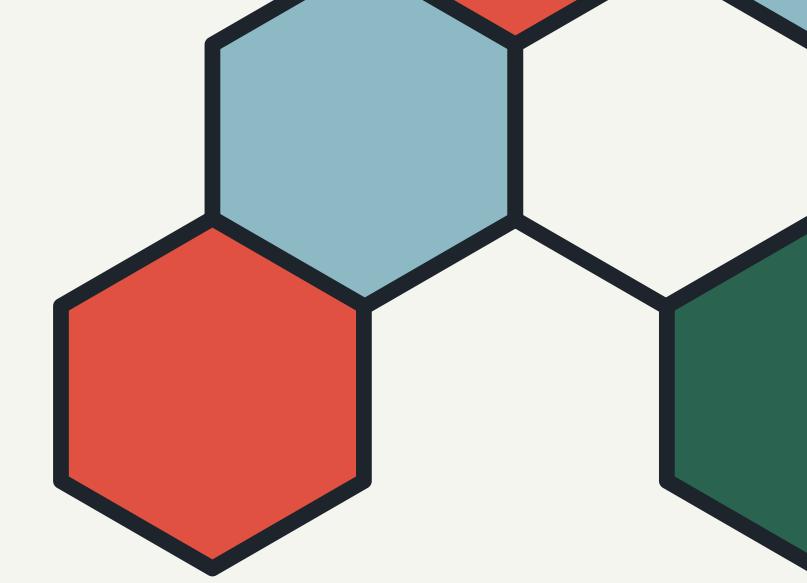
```
main ×  
/Users/ameeraattiah/PycharmProjects/CS_project/venv/bin/python /Users/ameeraattiah/PycharmProjects/CS_project/main.py  
Welcome to Sephora  
  
Enter the Password:1234  
The password is correct  
Which option do you want to carry out:  
1) Store item information: name, type, and quantity  
2) Display all items from the same type  
3) Edit one item quantity  
4) Delete an item  
5) Add an item  
6) Sort items ascending or descending  
7) Close the program  
  
Enter your number here: 5  
Enter the name of the product:mascara  
Enter the type of the product (face,eye,lip):eye  
Enter the quantity of the product:7  
  
Do you want to add another product? (yes = y, no = n) y  
Enter the name of the product:foundation  
Enter the type of the product (face,eye,lip):face  
Enter the quantity of the product:2  
  
Do you want to add another product? (yes = y, no = n) n  
The information has been saved in makeup.txt :)  
Do you want to carry out another option? (yes = y, no = n) n  
Closing the Program . . .  
  
Process finished with exit code 0
```

.txt

main.py ×

makeup.txt ×

```
1 | lipgloss
2 | lip
3 | 9
4 | mascara
5 | eye
6 | 7
7 | foundation
8 | face
9 | 2
10|
```



```
main.py x makeup.txt x
166
167     def sort():
168         order = input('Choose between sorting in ascending or descending order: (a = ascending, d = descending) ')
169         makeup_file = open('makeup.txt', 'r')
170
171         name = (makeup_file.readline()).rstrip('\n')
172         type = (makeup_file.readline()).rstrip('\n')
173         quantity = (makeup_file.readline()).rstrip('\n')
174
175         while name != '':
176             makeup_list.append([name, type, quantity])
177
178             name = (makeup_file.readline()).rstrip('\n')
179             type = (makeup_file.readline()).rstrip('\n')
180             quantity = (makeup_file.readline()).rstrip('\n')
181
182         makeup_file.close()
183
183     if order == 'a':
184         makeup_list.sort()
185     elif order == 'd':
186         makeup_list.sort(reverse=True)
187
188     rows = len(makeup_list)
189     columns = len(makeup_list[0])
190
191     temp_file = open('temporary.txt', 'w')
192     for r in range(rows):
193         for c in range(columns):
194             temp_file.write(makeup_list[r][c] + '\n')
195     temp_file.close()
196
197     os.remove('makeup.txt')
198     os.rename('temporary.txt', 'makeup.txt')
199     print('Products have been sorted')
200
```



THIS FUNCTION IS FOR SORTING THE PRODUCTS IN EITHER ASCENDING OR DESCENDING ORDER, WHICH WOULD DEPEND ON WHAT THE USER WILL CHOOSE

THE RUN FOR ASCENDING ORDER

Enter the Password:**1234**

The password is correct

Which option do you want to carry out:

- 1) Store item information: name, type, and quantity
- 2) Display all items from the same type
- 3) Edit one item quantity
- 4) Delete an item
- 5) Add an item
- 6) Sort items ascending or descending
- 7) Close the program

Enter your number here: **6**

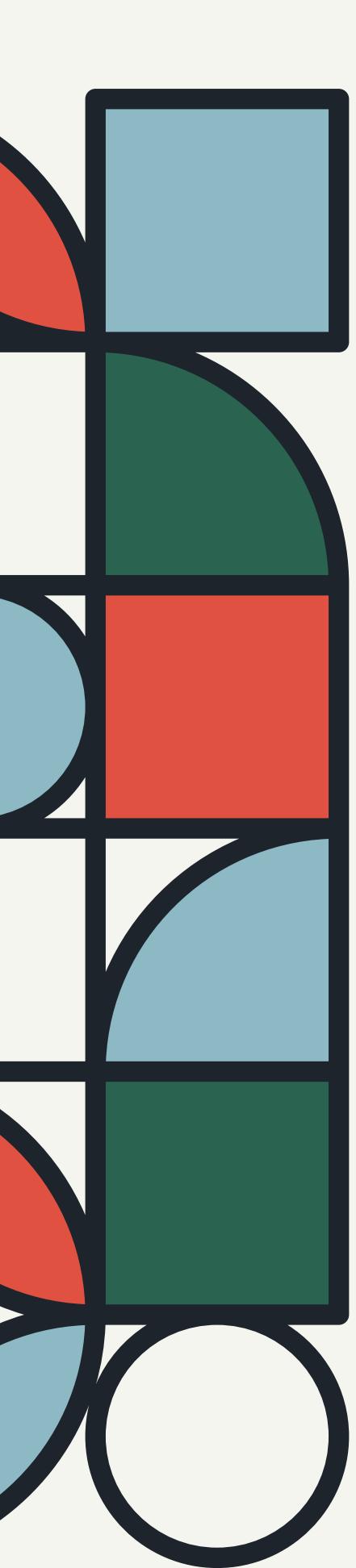
Choose between sorting in ascending or descending order: (a = ascending, d = descending) **a**

Products have been sorted

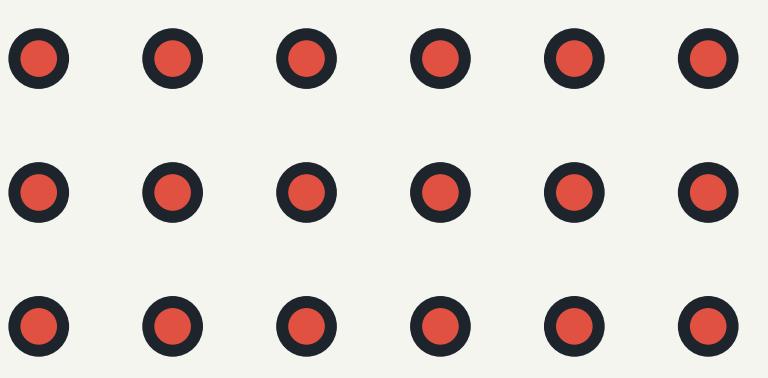
Do you want to carry out another option? (yes = y, no = n) **n**

Closing the Program . . .

Process finished with exit code 0



```
main.py  makeup.txt
1 foundation
2 face
3 2
4 lipgloss
5 lip
6 9
7 mascara
8 eye
9 7
10 4
```



RUN IN THE FILE IN ASCENDING ORDER



Enter the Password:`1234`

The password is correct

Which option do you want to carry out:

- 1) Store item information: name, type, and quantity
- 2) Display all items from the same type
- 3) Edit one item quantity
- 4) Delete an item
- 5) Add an item
- 6) Sort items ascending or descending
- 7) Close the program

Enter your number here: `6`

Choose between sorting in ascending or descending order: (a = ascending, d = descending) `d`

Products have been sorted

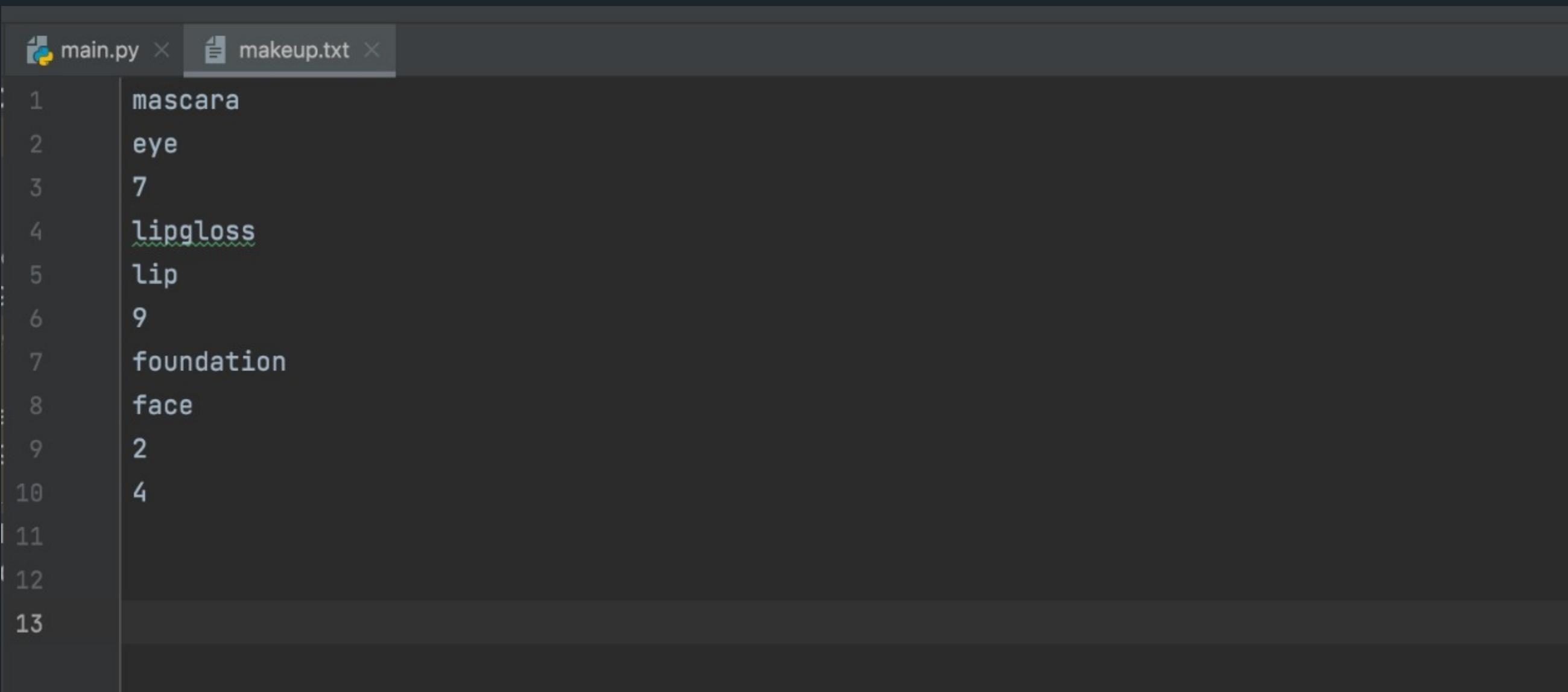
Do you want to carry out another option? (yes = y, no = n) `n`

Closing the Program . . .

Process finished with exit code 0

THE RUN FOR DESCENDING ORDER

IN THE FILE IN DESCENDING ORDER



The screenshot shows a code editor interface with two tabs at the top: "main.py" and "makeup.txt". The "makeup.txt" tab is currently selected. The content of the file is a list of items, each preceded by a line number from 1 to 13. The items are listed in descending order of their line numbers. The word "lipgloss" is underlined with a green line, indicating it is a misspelling of "lipstick".

Line Number	Item
1	mascara
2	eye
3	7
4	<u>lipgloss</u>
5	lip
6	9
7	foundation
8	face
9	2
10	4
11	
12	
13	

THE FUNCTION WHICH WOULD CLOSE THE PROGRAM

```
def exit_program():
    print('Closing the Program . . .')
```

```
def display():
    found = False
    search_type = str(input("Which product's type do you want to display?"))
    makeup_file = open('makeup.txt','r')
    makeup = makeup_file.readline()
    line = makeup_file.readline()
    while line != '':
        quantity = makeup_file.readline()
        line = line.rstrip('\n')
        if line == search_type:
            print('Product:', makeup)
            print('Type:', type)
            print('Quantity', quantity)
            found = True
        line = makeup_file.readline()
    makeup_file.close()
    if not found:
        print('That type was not available')
```

THE DISPLAY FUNCTION

```
/Users/ameeraattiah/PycharmProjects/CS_project/venv/bin/python /Users/ameeraattiah/PycharmProjects/CS_project/main.py
Welcome to Sephora

Enter the Password:1234
The password is correct
Which option do you want to carry out:
1) Store item information: name, type, and quantity
2) Display all items from the same type
3) Edit one item quantity
4) Delete an item
5) Add an item
6) Sort items ascending or descending

Enter your number here: 2
Which product's type do you want to display?face
Product: mascara

Type: <class 'type'>
Quantity 2

Do you want to carry out another option? (yes = y, no = n) n
Closing the Program . . .

Process finished with exit code 0
```

RUN FOR THE DISPLAY FUNCTION

Code
final

```
if ($window.scrollTop() > header1_initialDistance) {  
    header1.css('padding-top', '0px' + header1_initialPadding);  
}  
} else {  
    header1.css('padding-top', '' + header1_initialPadding);  
}  
  
if ($window.scrollTop() > header2_initialDistance) {  
    header2.css('padding-top', '0px' + header2_initialPadding);  
}  
} else {  
    header2.css('padding-top', '' + header2_initialPadding);  
}
```

```

        IMPORT OS
OPTIONS_LIST = ("STORE ITEM INFORMATION.", "DISPLAY
ITEMS OF THE SAME TYPE.",
"EDIT AN ITEM.", "DELETE AN ITEM.", "ADD
AN ITEM.", "SORT ITEMS.")
MAKEUP_LIST = ()

        DEF LOG_IN():
        PASSWORD = '1234'
ENTERED_PASSWORD = STR(INPUT('ENTER THE
PASSWORD:'))
WHILE ENTERED_PASSWORD != PASSWORD:
        PRINT ('THE PASSWORD IS INCORRECT')
        PRINT('')
ENTERED_PASSWORD = STR(INPUT('ENTER THE
PASSWORD AGAIN:'))
PRINT('THE PASSWORD IS CORRECT')

        DEF CHOOSING_OPTION():
PRINT ('WHICH OPTION DO YOU WANT TO CARRY
OUT:\n'
        '1) STORE ITEM INFORMATION: NAME,
TYPE, AND QUANTITY\n'
        '2) DISPLAY ALL ITEMS FROM THE
SAME TYPE \n'
        '3) EDIT ONE ITEM QUANTITY\n'
        '4) DELETE AN ITEM\n'
        '5) ADD AN ITEM\n'
        '6) SORT ITEMS ASCENDING OR
DESCENDING\n')

CHOOSING_OPTION = INPUT('ENTER YOUR NUMBER
HERE: ')

```

```

        IF CHOOSING_OPTION == '1':
        STORE()
ELIF CHOOSING_OPTION == '2':
        DISPLAY()
ELIF CHOOSING_OPTION == '3':
        EDIT()
ELIF CHOOSING_OPTION == '4':
        DELETE()
ELIF CHOOSING_OPTION == '5':
        ADD()
ELIF CHOOSING_OPTION == '6':
        SORT()
ELSE:
        EXIT_PROGRAM()

        DEF STORE():
MAKEUP_FILE = OPEN('MAKEUP.TXT', 'W')
PRINT('ENTER THE FOLLOWING DATA FOR
THE MAKEUP PRODUCTS:')
ANSWER = 'Y'

        WHILE ANSWER == 'Y' OR ANSWER == 'Y':
MAKEUP = STR(INPUT('ENTER THE NAME OF THE PRODUCT:'))
TYPE = STR(INPUT('ENTER THE TYPE OF THE PRODUCT
(FACE,EYE,LIP):'))
QUANTITY = STR(INPUT('ENTER THE QUANTITY OF THE PRODUCT:'))
PRINT ('')

        MAKEUP_FILE.WRITE(STR(MAKEUP + '\n'))
        MAKEUP_FILE.WRITE(STR(TYPE + '\n'))
        MAKEUP_FILE.WRITE (STR(QUANTITY) + '\n')

ANSWER = INPUT('DO YOU WANT TO ADD ANOTHER PRODUCT? (YES
= Y,NO = N)')

        MAKEUP_FILE.CLOSE()
PRINT('THE INFORMATION HAS BEEN SAVED IN MAKEUP.TXT :')

        DEF DISPLAY():
        FOUND = FALSE

```

```

SEARCH_TYPE = STR(INPUT("WHICH
PRODUCT'S TYPE DO YOU WANT TO
DISPLAY?"))
MAKEUP_FILE =
OPEN('MAKEUP.TXT','R')
MAKEUP = MAKEUP_FILE.READLINE()
LINE = MAKEUP_FILE.READLINE()
WHILE LINE != '':
    QUANTITY =
MAKEUP_FILE.READLINE()
    LINE = LINE.RSTRIP('\n')
    IF LINE == SEARCH_TYPE:
        PRINT('PRODUCT:',MAKEUP)
        PRINT('TYPE:', TYPE)
        PRINT('QUANTITY',QUANTITY)
        FOUND = TRUE
    LINE = MAKEUP_FILE.READLINE()
    MAKEUP_FILE.CLOSE()
    IF NOT FOUND:
        PRINT('THAT TYPE WAS NOT
AVAILABLE')

DEF EDIT():
FOUND = FALSE

```

```

SEARCH = INPUT('ENTER A DESCRIPTION TO SEARCH FOR: ')
NEW_QUANTITY = INT(INPUT('ENTER THE NEW QUANTITY: '))
MAKEUP_FILE = OPEN('MAKEUP.TXT', 'R')
TEMP_FILE = OPEN('TEMP.TXT', 'W')
NAME = MAKEUP_FILE.READLINE()

WHILE NAME != '':
    TYPE = MAKEUP_FILE.READLINE()
    QUANTITY = MAKEUP_FILE.READLINE()
    NAME = NAME.RSTRIP('\n')
    TYPE = TYPE.RSTRIP('\n')
    QUANTITY = QUANTITY.RSTRIP('\n')

    IF NAME == SEARCH:
        TEMP_FILE.WRITE(NAME + '\n')
        TEMP_FILE.WRITE(TYPE + '\n')
    TEMP_FILE.WRITE(STR(NEW_QUANTITY) + '\n')

    FOUND = TRUE
    ELSE:
        TEMP_FILE.WRITE(NAME + '\n')
        TEMP_FILE.WRITE(TYPE + '\n')
    TEMP_FILE.WRITE(STR(QUANTITY) + '\n')

    NAME = MAKEUP_FILE.READLINE()

    MAKEUP_FILE CLOSE()
    TEMP_FILE CLOSE()
    OS.REMOVE('MAKEUP.TXT')
    OS.RENAME('TEMP.TXT', 'MAKEUP.TXT')

    IF FOUND:
        PRINT('THE FILE HAS BEEN UPDATED.')
    ELSE:
        PRINT('THAT ITEM WAS NOT FOUND IN THE FILE.')

DEF DELETE():

```

```

FOUND = FALSE
SEARCH = INPUT('WHICH PRODUCT DO YOU WANT TO
DELETE? ')
MAKEUP_FILE = OPEN('MAKEUP.TXT', 'R')
TEMP_FILE = OPEN('TEMP.TXT', 'W')
DESCR = MAKEUP_FILE.READLINE()
WHILE DESCR != '':
    QTY = STR(MAKEUP_FILE.READLINE())
    DESCR = DESCR.RSTRIP('\n')
    IF DESCR != SEARCH:
        TEMP_FILE.WRITE(DESCR + '\n')
    TEMP_FILE.WRITE(STR(QTY) + '\n')
    ELSE:
        FOUND = TRUE
    DESCR = MAKEUP_FILE.READLINE()
    MAKEUP_FILE.CLOSE()
    TEMP_FILE.CLOSE()
    OS.REMOVE('MAKEUP.TXT')
    OS.RENAME('TEMP.TXT', 'MAKEUP.TXT')
    IF FOUND:
        PRINT('THE FILE HAS BEEN UPDATED.')
    ELSE :
        PRINT('THAT ITEM WAS NOT FOUND IN THE FILE.')

DEF ADD():
MAKEUP_FILE = OPEN('MAKEUP.TXT', 'A')
ANSWER = 'Y'
WHILE ANSWER == 'Y' OR ANSWER == 'Y':
    MAKEUP = STR(INPUT('ENTER THE NAME OF THE
PRODUCT:'))

    TYPE = STR(INPUT('ENTER THE TYPE OF THE PRODUCT
(FACE,EYE,LIP):'))
    QUANTITY = STR(INPUT('ENTER THE QUANTITY OF THE
PRODUCT:'))

    PRINT('')
    MAKEUP_FILE.WRITE(STR(MAKEUP + '\n'))
    MAKEUP_FILE.WRITE(STR(TYPE + '\n'))
    MAKEUP_FILE.WRITE(STR(QUANTITY) + '\n')

```

```
ANSWER = INPUT('DO YOU WANT TO ADD  
ANOTHER PRODUCT? (YES = Y, NO = N) ')
```

```
    MAKEUP_FILE.CLOSE()  
    PRINT('THE INFORMATION HAS BEEN SAVED  
    IN MAKEUP.TXT :)')
```

```
    DEF SORT():  
        ORDER = INPUT('CHOOSE BETWEEN SORTING  
        IN ASCENDING OR DESCENDING ORDER: (A =  
        ASCENDING, D = DESCENDING) ')  
        MAKEUP_FILE = OPEN('MAKEUP.TXT', 'R')
```

```
            NAME =  
            (MAKEUP_FILE.READLINE()).RSTRIP('\n')  
            TYPE =  
            (MAKEUP_FILE.READLINE()).RSTRIP('\n')  
            QUANTITY =  
            (MAKEUP_FILE.READLINE()).RSTRIP('\n')
```

```
            WHILE NAME != "":  
                MAKEUP_LIST.APPEND((NAME, TYPE,  
                QUANTITY))
```

```
            NAME =  
            (MAKEUP_FILE.READLINE()).RSTRIP('\n')  
            TYPE =  
            (MAKEUP_FILE.READLINE()).RSTRIP('\n')  
            QUANTITY =  
            (MAKEUP_FILE.READLINE()).RSTRIP('\n')  
            MAKEUP_FILE.CLOSE()
```

```
            IF ORDER == 'A':  
                MAKEUP_LIST.SORT()  
            ELIF ORDER == 'D':  
                MAKEUP_LIST.SORT(VERSE=TRUE)
```

```
ROWS = LEN(MAKEUP_LIST)  
COLUMNS = LEN(MAKEUP_LIST[0])
```

```
TEMP_FILE = OPEN('TEMPORARY.TXT', 'W')  
FOR R IN RANGE(ROWS):  
    FOR C IN RANGE(COLUMNS):  
        TEMP_FILE.WRITE(MAKEUP_LIST(R)(C) +  
        '\n')  
    TEMP_FILE.CLOSE()
```

```
OS.REMOVE('MAKEUP.TXT')  
OS.RENAME('TEMPORARY.TXT', 'MAKEUP.TXT')  
PRINT('PRODUCTS HAVE BEEN SORTED')
```

```
DEF EXIT_PROGRAM():  
    PRINT('CLOSING THE PROGRAM . . .')
```

```
DEF MAIN():  
    PRINT('WELCOME TO SEPHORA')  
    PRINT()  
    LOG_IN()  
    ANSWER = 'Y'  
    WHILE ANSWER == 'Y' OR ANSWER == 'Y':  
        CHOOSING_OPTION()  
        ANSWER = INPUT('DO YOU WANT TO CARRY  
        OUT ANOTHER OPTION? (YES = Y, NO = N) ')
```

```
EXIT_PROGRAM()
```

```
MAIN()
```

THANKYOU