PRF192 ASSIGNMENT

Requirement: WRITE A C PROGRAM TO MANAGE FOOD AND CUSTOMER IN A MINI MARKET

GROUP 6

TASK	NAME
- Lên ý tưởng - Code sườn bài \(macro, database,...) - Làm function display all items và function add items	Trần Quốc Hùng - DE190015 - Leader
- Làm function sort và export data to file	Lê Nguyễn Anh Đạt - DE180645
- Làm function Look for items và delete matched items	Bùi Quang Hiếu - DE190011
- Làm function delete all item và modify item	Nguyễn Thanh Lân - DE180900

TASK 1: display all items

Manage food items

```
*********************************************************************************************
*                                    Product Database                                      *
*********************************************************************************************
*                                                                                          *
*  no. |  name           |  stock   |  price      |  manufacturing date |  expiry date     *
*                                                                                          *
*  1   |  chicken        |  10      |  30         |  22/10/2023         |  22/10/2024       *
*  2   |  beef           |  15      |  20         |  15/11/2023         |  15/11/2024       *
*  3   |  pork           |  12      |  25         |  18/12/2023         |  18/12/2024       *
*  4   |  fish           |  8       |  40         |  05/09/2023         |  05/09/2024       *
*  5   |  vegetables     |  5       |  50         |  30/11/2023         |  30/11/2024       *
*  6   |  fruits         |  6       |  60         |  12/12/2023         |  12/12/2024       *
*  7   |  bread          |  3       |  70         |  01/01/2023         |  01/01/2024       *
*  8   |  milk           |  2       |  80         |  02/02/2023         |  02/02/2024       *
*  9   |  cheese         |  4       |  90         |  03/03/2023         |  03/03/2024       *
*  10  |  eggs           |  1       |  100        |  04/04/2023         |  04/04/2024       *
*                                                                                          *
*********************************************************************************************

            Press any keys to return to main product menu
```

Manage customers:

```
********************************************************************************************
*                                Customer Database                                        *
********************************************************************************************
*                                                                                         *
*  no. |  name               |  age    |  phone number    |  acconut balance    |  bonus point  *
*                                                                                         *
*  1   |  John               |  25     |  1234567890      |  1000               |  50           *
*  2   |  Alice              |  30     |  9876543210      |  2000               |  100          *
*  3   |  Bob                |  35     |  5555555555      |  1500               |  75           *
*  4   |  Emma               |  28     |  9999999999      |  1800               |  90           *
*  5   |  Michael            |  40     |  1111111111      |  1200               |  60           *
*  6   |  Sophia             |  32     |  4444444444      |  2500               |  125          *
*  7   |  William            |  27     |  6666666666      |  900                |  45           *
*  8   |  Olivia             |  31     |  2222222222      |  1700               |  85           *
*  9   |  James              |  29     |  8888888888      |  1400               |  70           *
*  10  |  Emily              |  33     |  3333333333      |  2200               |  110          *
*                                                                                         *
********************************************************************************************


                    Press any keys to return to main customer menu
```

Task 2: add items

Manage food items:

```
********************************************************************************************
*                                Product Database                                         *
********************************************************************************************
*                                                                                         *
*  no. |  name               |  stock   |  price    |  manufacturing date   |  expiry date   *
*                                                                                         *
*  1   |  chicken            |  10      |  30       |  22/10/2023           |  22/10/2024    *
*  2   |  beef               |  15      |  20       |  15/11/2023           |  15/11/2024    *
*  3   |  pork               |  12      |  25       |  18/12/2023           |  18/12/2024    *
*  4   |  fish               |  8       |  40       |  05/09/2023           |  05/09/2024    *
*  5   |  vegetables         |  5       |  50       |  30/11/2023           |  30/11/2024    *
*  6   |  fruits             |  6       |  60       |  12/12/2023           |  12/12/2024    *
*  7   |  bread              |  3       |  70       |  01/01/2023           |  01/01/2024    *
*  8   |  milk               |  2       |  80       |  02/02/2023           |  02/02/2024    *
*  9   |  cheese             |  4       |  90       |  03/03/2023           |  03/03/2024    *
*  10  |  eggs               |  1       |  100      |  04/04/2023           |  04/04/2024    *
*                                                                                         *
********************************************************************************************

           Enter name or q to back:  chilly
           Enter stock or q to back:  13141
           Enter price or q to back:  1414
           Enter manufacturing date or q to back:  08/08/2008
           Enter expiry date or q to back:  09/09/2009

                       Add item successfully!

           Press r to refresh the list, any keys to return to product menu
```

```
********************************************************************************************
*                                Product Database                                         *
********************************************************************************************
*                                                                                         *
*  no. |  name               |  stock   |  price    |  manufacturing date   |  expiry date   *
*                                                                                         *
*  1   |  chicken            |  10      |  30       |  22/10/2023           |  22/10/2024    *
*  2   |  beef               |  15      |  20       |  15/11/2023           |  15/11/2024    *
*  3   |  pork               |  12      |  25       |  18/12/2023           |  18/12/2024    *
*  4   |  fish               |  8       |  40       |  05/09/2023           |  05/09/2024    *
*  5   |  vegetables         |  5       |  50       |  30/11/2023           |  30/11/2024    *
*  6   |  fruits             |  6       |  60       |  12/12/2023           |  12/12/2024    *
*  7   |  bread              |  3       |  70       |  01/01/2023           |  01/01/2024    *
*  8   |  milk               |  2       |  80       |  02/02/2023           |  02/02/2024    *
*  9   |  cheese             |  4       |  90       |  03/03/2023           |  03/03/2024    *
*  10  |  eggs               |  1       |  100      |  04/04/2023           |  04/04/2024    *
*  11  |  chilly             |  13141   |  1414     |  08/08/2008           |  09/09/2009    *
*                                                                                         *
********************************************************************************************


                    Press any keys to return to product menu
```

Errors:

```
********************************************************************************************
*                                  Product Database                                       *
********************************************************************************************
*                                                                                         *
*  no. |  name            |  stock    |  price    |  manufacturing date  |  expiry date    *
*                                                                                         *
*  1   |  chicken         |  10       |  30       |  22/10/2023          |  22/10/2024     *
*  2   |  beef            |  15       |  20       |  15/11/2023          |  15/11/2024     *
*  3   |  pork            |  12       |  25       |  18/12/2023          |  18/12/2024     *
*  4   |  fish            |  8        |  40       |  05/09/2023          |  05/09/2024     *
*  5   |  vegetables      |  5        |  50       |  30/11/2023          |  30/11/2024     *
*  6   |  fruits          |  6        |  60       |  12/12/2023          |  12/12/2024     *
*  7   |  bread           |  3        |  70       |  01/01/2023          |  01/01/2024     *
*  8   |  milk            |  2        |  80       |  02/02/2023          |  02/02/2024     *
*  9   |  cheese          |  4        |  90       |  03/03/2023          |  03/03/2024     *
*  10  |  eggs            |  1        |  100      |  04/04/2023          |  04/04/2024     *
*  11  |  chilly          |  13141    |  1414     |  08/08/2008          |  09/09/2009     *
*                                                                                         *
********************************************************************************************

            Enter name or q to back:  spicies
            Enter stock or q to back:  131
            Enter price or q to back:  157
            Enter manufacturing date or q to back:  08082008
            Enter expiry date or q to back:  09092009

                        Please check the input!

            Do you want to retry? (yes/no) (press y or n)
```

Manage customers:

```
********************************************************************************************
*                                  Customer Database                                      *
********************************************************************************************
*                                                                                         *
*  no. |  name            |  age      |  phone number    |  acconut balance   |  bonus point   *
*                                                                                         *
*  1   |  John            |  25       |  1234567890      |  1000              |  50            *
*  2   |  Alice           |  30       |  9876543210      |  2000              |  100           *
*  3   |  Bob             |  35       |  5555555555      |  1500              |  75            *
*  4   |  Emma            |  28       |  9999999999      |  1800              |  90            *
*  5   |  Michael         |  40       |  1111111111      |  1200              |  60            *
*  6   |  Sophia          |  32       |  4444444444      |  2500              |  125           *
*  7   |  William         |  27       |  6666666666      |  900               |  45            *
*  8   |  Olivia          |  31       |  2222222222      |  1700              |  85            *
*  9   |  James           |  29       |  8888888888      |  1400              |  70            *
*  10  |  Emily           |  33       |  3333333333      |  2200              |  110           *
*                                                                                         *
********************************************************************************************

            Enter name or q to back:  Nguyen A
            Enter age or q to back:  14
            Enter phone number or q to back:  0867898808
            Enter acconut balance or q to back:  1421314
            Enter bonus point or q to back:  1451

                        Add item successfully!

            Press r to refresh the list, any keys to return to customer menu
```

```
*****************************************************************************************************
*                                    Customer Database                                             *
*****************************************************************************************************
*                                                                                                   *
*   no. |   name              |   age   |   phone number  |   acconut balance   |   bonus point     *
*                                                                                                   *
*   1   |   John              |   25    |   1234567890    |   1000              |   50              *
*   2   |   Alice             |   30    |   9876543210    |   2000              |   100             *
*   3   |   Bob               |   35    |   5555555555    |   1500              |   75              *
*   4   |   Emma              |   28    |   9999999999    |   1800              |   90              *
*   5   |   Michael           |   40    |   1111111111    |   1200              |   60              *
*   6   |   Sophia            |   32    |   4444444444    |   2500              |   125             *
*   7   |   William           |   27    |   6666666666    |   900               |   45              *
*   8   |   Olivia            |   31    |   2222222222    |   1700              |   85              *
*   9   |   James             |   29    |   8888888888    |   1400              |   70              *
*   10  |   Emily             |   33    |   3333333333    |   2200              |   110             *
*   11  |   Nguyen A          |   14    |   0867898808    |   1421314           |   1451            *
*                                                                                                   *
*****************************************************************************************************


                        Press any keys to return to customer menu
```

Errors:

```
*****************************************************************************************************
*                                    Customer Database                                             *
*****************************************************************************************************
*                                                                                                   *
*   no. |   name              |   age   |   phone number  |   acconut balance   |   bonus point     *
*                                                                                                   *
*   1   |   John              |   25    |   1234567890    |   1000              |   50              *
*   2   |   Alice             |   30    |   9876543210    |   2000              |   100             *
*   3   |   Bob               |   35    |   5555555555    |   1500              |   75              *
*   4   |   Emma              |   28    |   9999999999    |   1800              |   90              *
*   5   |   Michael           |   40    |   1111111111    |   1200              |   60              *
*   6   |   Sophia            |   32    |   4444444444    |   2500              |   125             *
*   7   |   William           |   27    |   6666666666    |   900               |   45              *
*   8   |   Olivia            |   31    |   2222222222    |   1700              |   85              *
*   9   |   James             |   29    |   8888888888    |   1400              |   70              *
*   10  |   Emily             |   33    |   3333333333    |   2200              |   110             *
*   11  |   Nguyen A          |   14    |   0867898808    |   1421314           |   1451            *
*                                                                                                   *
*****************************************************************************************************

                Enter name or q to back:  Le B
                Enter age or q to back:  muoi hai tuoi
                Enter phone number or q to back:  1231123123
                Enter acconut balance or q to back:  756483
                Enter bonus point or q to back:  23131

                            Please check the input!

                Do you want to retry? (yes/no) (press y or n)
```

TASK 3: SORT ALL ITEMS

3.1 SORT NAMES

3.2 SORT STOCK

3.3 SORT PRICE

3.4 SORT MANUFACTURING DATE

3.5 SORT EXPIRY DATE

```
E:\Downloads\prf192_assignment-main\main.exe                                    —    □    ×
********************************************************************************************
*                                  Product Database                                       *
********************************************************************************************
*                                                                                         *
*   no. |   name                 |   stock   |   price    |   manufacturing date   |   expiry date   *
*                                                                                         *
*   1   |   bread                |   3       |   70       |   01/01/2023           |   01/01/2024   *
*   2   |   milk                 |   2       |   80       |   02/02/2023           |   02/02/2024   *
*   3   |   cheese               |   4       |   90       |   03/03/2023           |   03/03/2024   *
*   4   |   eggs                 |   1       |   100      |   04/04/2023           |   04/04/2024   *
*   5   |   fish                 |   8       |   40       |   05/09/2023           |   05/09/2024   *
*   6   |   chicken              |   10      |   30       |   22/10/2023           |   22/10/2024   *
*   7   |   beef                 |   15      |   20       |   15/11/2023           |   15/11/2024   *
*   8   |   vegetables           |   5       |   50       |   30/11/2023           |   30/11/2024   *
*   9   |   fruits               |   6       |   60       |   12/12/2023           |   12/12/2024   *
*   10  |   pork                 |   12      |   25       |   18/12/2023           |   18/12/2024   *
*                                                                                         *
********************************************************************************************


                        Press any keys to return to main product menu
```

3.5 ERROR VALID

```
E:\Downloads\prf192_assignment-main\main.exe                                    —    □    ×
********************************************************************************************
*                                  Product Database                                       *
********************************************************************************************
*                                                                                         *
*   no. |   name                 |   stock   |   price    |   manufacturing date   |   expiry date   *
*                                                                                         *
*   1   |   bread                |   3       |   70       |   01/01/2023           |   01/01/2024   *
*   2   |   milk                 |   2       |   80       |   02/02/2023           |   02/02/2024   *
*   3   |   cheese               |   4       |   90       |   03/03/2023           |   03/03/2024   *
*   4   |   eggs                 |   1       |   100      |   04/04/2023           |   04/04/2024   *
*   5   |   fish                 |   8       |   40       |   05/09/2023           |   05/09/2024   *
*   6   |   chicken              |   10      |   30       |   22/10/2023           |   22/10/2024   *
*   7   |   beef                 |   15      |   20       |   15/11/2023           |   15/11/2024   *
*   8   |   vegetables           |   5       |   50       |   30/11/2023           |   30/11/2024   *
*   9   |   fruits               |   6       |   60       |   12/12/2023           |   12/12/2024   *
*   10  |   pork                 |   12      |   25       |   18/12/2023           |   18/12/2024   *
*                                                                                         *
********************************************************************************************
                        1. name
                        2. stock
                        3. price
                        4. manufacturing date
                        5. expiry date
                        6. back

                        Which field do you want to sort (Press a listed number)
```

TASK 4: Search item by field

```
***************************************************************************************************
*                                     Product Database                                           *
***************************************************************************************************
*                                                                                                *
*   no. |   name            |   stock  |   price    |   manufacturing date  |   expiry date       *
*                                                                                                *
*   1   |   chicken         |   10     |   30       |   22/10/2023          |   22/10/2024        *
*   2   |   beef            |   15     |   20       |   15/11/2023          |   15/11/2024        *
*   3   |   pork            |   12     |   25       |   18/12/2023          |   18/12/2024        *
*   4   |   fish            |   8      |   40       |   05/09/2023          |   05/09/2024        *
*   5   |   vegetables      |   5      |   50       |   30/11/2023          |   30/11/2024        *
*   6   |   fruits          |   6      |   60       |   12/12/2023          |   12/12/2024        *
*   7   |   bread           |   3      |   70       |   01/01/2023          |   01/01/2024        *
*   8   |   milk            |   2      |   80       |   02/02/2023          |   02/02/2024        *
*   9   |   cheese          |   4      |   90       |   03/03/2023          |   03/03/2024        *
*   10  |   eggs            |   1      |   100      |   04/04/2023          |   04/04/2024        *
*                                                                                                *
***************************************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

                    Which field do you want to search (Press a listed number)
```

1. Name


```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                          —     □     ×
******************************************************************************************************
*                                           Product Database                                        *
******************************************************************************************************
*                                                                                                   *
*   no. |   name                   |   stock   |   price       |   manufacturing date |   expiry date *
*                                                                                                   *
*   1   |   chicken                |   10      |   30          |   22/10/2023         |   22/10/2024  *
*   2   |   beef                   |   15      |   20          |   15/11/2023         |   15/11/2024  *
*   3   |   pork                   |   12      |   25          |   18/12/2023         |   18/12/2024  *
*   4   |   fish                   |   8       |   40          |   05/09/2023         |   05/09/2024  *
*   5   |   vegetables             |   5       |   50          |   30/11/2023         |   30/11/2024  *
*   6   |   fruits                 |   6       |   60          |   12/12/2023         |   12/12/2024  *
*   7   |   bread                  |   3       |   70          |   01/01/2023         |   01/01/2024  *
*   8   |   milk                   |   2       |   80          |   02/02/2023         |   02/02/2024  *
*   9   |   cheese                 |   4       |   90          |   03/03/2023         |   03/03/2024  *
*   10  |   eggs                   |   1       |   100         |   04/04/2023         |   04/04/2024  *
*                                                                                                   *
******************************************************************************************************
                        1. name
                        2. stock
                        3. price
                        4. manufacturing date
                        5. expiry date
                        6. back

                        Which field do you want to search (Press a listed number)

                        Enter name to search or q to go back: beef
```



```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                          —     □     ×
******************************************************************************************************
*                                         Product Search List                                       *
******************************************************************************************************
*                                                                                                   *
*   no. |   name                   |   stock   |   price       |   manufacturing date |   expiry date *
*                                                                                                   *
*   1   |   beef                   |   15      |   20          |   15/11/2023         |   15/11/2024  *
*                                                                                                   *
******************************************************************************************************

                        Press r to search again, any p to return to product menu
```

2. stock


```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                                    —    □    ×
*******************************************************************************************************
*                                          Product Database                                          *
*******************************************************************************************************
*                                                                                                    *
*   no. |    name                    |    stock      |    price      |   manufacturing date  |   expiry date    *
*                                                                                                    *
*   1   |    chicken                 |    10         |    30         |    22/10/2023         |    22/10/2024    *
*   2   |    beef                    |    15         |    20         |    15/11/2023         |    15/11/2024    *
*   3   |    pork                    |    12         |    25         |    18/12/2023         |    18/12/2024    *
*   4   |    fish                    |    8          |    40         |    05/09/2023         |    05/09/2024    *
*   5   |    vegetables              |    5          |    50         |    30/11/2023         |    30/11/2024    *
*   6   |    fruits                  |    6          |    60         |    12/12/2023         |    12/12/2024    *
*   7   |    bread                   |    3          |    70         |    01/01/2023         |    01/01/2024    *
*   8   |    milk                    |    2          |    80         |    02/02/2023         |    02/02/2024    *
*   9   |    cheese                  |    4          |    90         |    03/03/2023         |    03/03/2024    *
*   10  |    eggs                    |    1          |    100        |    04/04/2023         |    04/04/2024    *
*                                                                                                    *
*******************************************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

                    Which field do you want to search (Press a listed number)

                    Enter stock to search or q to go back: 12_
```



```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                                    —    □    ×
*******************************************************************************************************
*                                          Product Search List                                       *
*******************************************************************************************************
*                                                                                                    *
*   no. |    name                    |    stock      |    price      |   manufacturing date  |   expiry date    *
*                                                                                                    *
*   1   |    pork                    |    12         |    25         |    18/12/2023         |    18/12/2024    *
*                                                                                                    *
*******************************************************************************************************


                    Press r to search again, any p to return to product menu
```
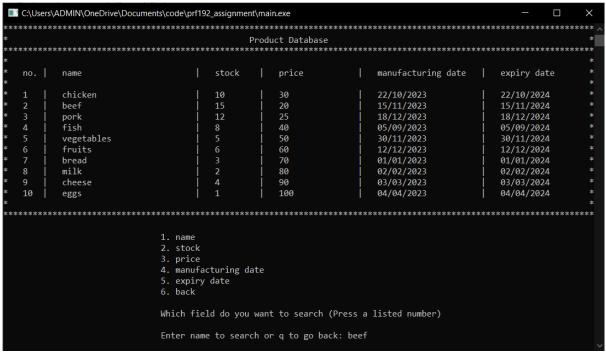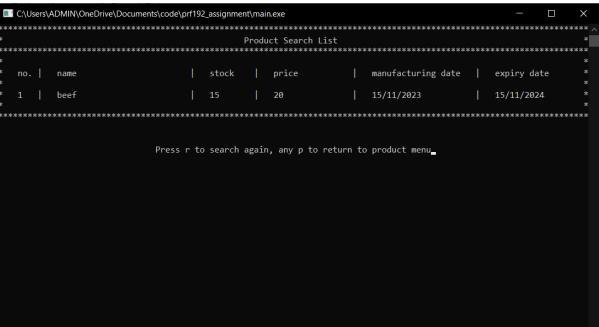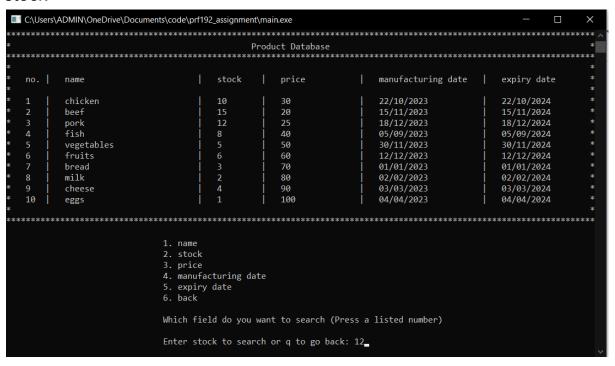
3. price

4. manufacturing date


```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                    —    □    ×
*****************************************************************************************************
*                                       Product Database                                          *
*****************************************************************************************************
*                                                                                                 *
*  no. |    name                     |   stock     |   price     |   manufacturing date   |   expiry date   *
*                                                                                                 *
*  1   |    chicken                  |   10        |   30        |   22/10/2023           |   22/10/2024    *
*  2   |    beef                     |   15        |   20        |   15/11/2023           |   15/11/2024    *
*  3   |    pork                     |   12        |   25        |   18/12/2023           |   18/12/2024    *
*  4   |    fish                     |   8         |   40        |   05/09/2023           |   05/09/2024    *
*  5   |    vegetables               |   5         |   50        |   30/11/2023           |   30/11/2024    *
*  6   |    fruits                   |   6         |   60        |   12/12/2023           |   12/12/2024    *
*  7   |    bread                    |   3         |   70        |   01/01/2023           |   01/01/2024    *
*  8   |    milk                     |   2         |   80        |   02/02/2023           |   02/02/2024    *
*  9   |    cheese                   |   4         |   90        |   03/03/2023           |   03/03/2024    *
*  10  |    eggs                     |   1         |   100       |   04/04/2023           |   04/04/2024    *
*                                                                                                 *
*****************************************************************************************************

                            1. name
                            2. stock
                            3. price
                            4. manufacturing date
                            5. expiry date
                            6. back

                            Which field do you want to search (Press a listed number)

                            Enter manufacturing date to search or q to go back: 02/02/2023
```

```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                    —    □    ×
*****************************************************************************************************
*                                     Product Search List                                         *
*****************************************************************************************************
*                                                                                                 *
*  no. |    name                     |   stock     |   price     |   manufacturing date   |   expiry date   *
*                                                                                                 *
*  1   |    milk                     |   2         |   80        |   02/02/2023           |   02/02/2024    *
*                                                                                                 *
*****************************************************************************************************

                            Press r to search again, any p to return to product menu
```

5. expiry date


```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                    —    □    ×
*******************************************************************************************************
*                                      Product Database                                              *
*******************************************************************************************************
*                                                                                                    *
*   no. |   name                  |  stock   |  price   |  manufacturing date  |  expiry date         *
*                                                                                                    *
*   1   |   chicken               |  10      |  30      |  22/10/2023          |  22/10/2024          *
*   2   |   beef                  |  15      |  20      |  15/11/2023          |  15/11/2024          *
*   3   |   pork                  |  12      |  25      |  18/12/2023          |  18/12/2024          *
*   4   |   fish                  |  8       |  40      |  05/09/2023          |  05/09/2024          *
*   5   |   vegetables            |  5       |  50      |  30/11/2023          |  30/11/2024          *
*   6   |   fruits                |  6       |  60      |  12/12/2023          |  12/12/2024          *
*   7   |   bread                 |  3       |  70      |  01/01/2023          |  01/01/2024          *
*   8   |   milk                  |  2       |  80      |  02/02/2023          |  02/02/2024          *
*   9   |   cheese                |  4       |  90      |  03/03/2023          |  03/03/2024          *
*   10  |   eggs                  |  1       |  100     |  04/04/2023          |  04/04/2024          *
*                                                                                                    *
*******************************************************************************************************
                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

                    Which field do you want to search (Press a listed number)

                    Enter expiry date to search or q to go back: 30/11/2024_
```
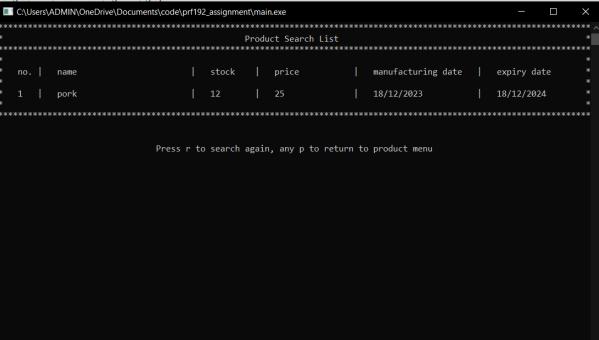
```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                    —    □    ×
*******************************************************************************************************
*                                      Product Search List                                           *
*******************************************************************************************************
*                                                                                                    *
*   no. |   name                  |  stock   |  price   |  manufacturing date  |  expiry date         *
*                                                                                                    *
*   1   |   vegetables            |  5       |  50      |  30/11/2023          |  30/11/2024          *
*                                                                                                    *
*******************************************************************************************************

                    Press r to search again, any p to return to product menu_
```

6. Not found an item


```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                    —    □    ×
*********************************************************************************************
*                                    Product Database                                      *
*********************************************************************************************
*                                                                                          *
*  no. |    name                   |  stock   |  price    |  manufacturing date |  expiry date  *
*                                                                                          *
*  1   |    chicken                |  10      |  30       |  22/10/2023         |  22/10/2024   *
*  2   |    beef                   |  15      |  20       |  15/11/2023         |  15/11/2024   *
*  3   |    pork                   |  12      |  25       |  18/12/2023         |  18/12/2024   *
*  4   |    fish                   |  8       |  40       |  05/09/2023         |  05/09/2024   *
*  5   |    vegetables             |  5       |  50       |  30/11/2023         |  30/11/2024   *
*  6   |    fruits                 |  6       |  60       |  12/12/2023         |  12/12/2024   *
*  7   |    bread                  |  3       |  70       |  01/01/2023         |  01/01/2024   *
*  8   |    milk                   |  2       |  80       |  02/02/2023         |  02/02/2024   *
*  9   |    cheese                 |  4       |  90       |  03/03/2023         |  03/03/2024   *
*  10  |    eggs                   |  1       |  100      |  04/04/2023         |  04/04/2024   *
*                                                                                          *
*********************************************************************************************
                        1. name
                        2. stock
                        3. price
                        4. manufacturing date
                        5. expiry date
                        6. back

                        Which field do you want to search (Press a listed number)

                        Enter name to search or q to go back: dani_
```
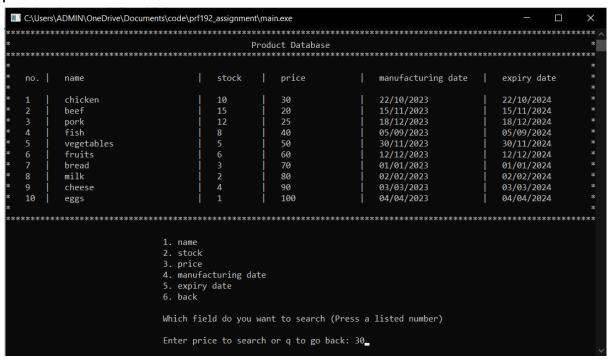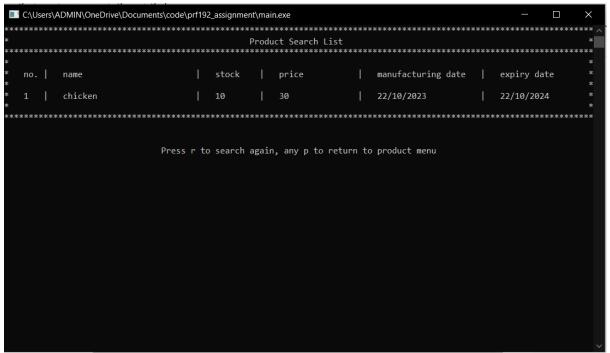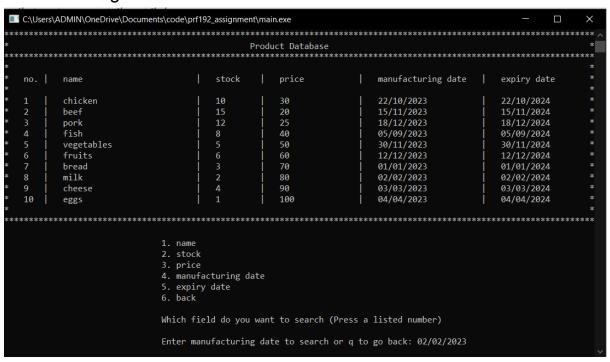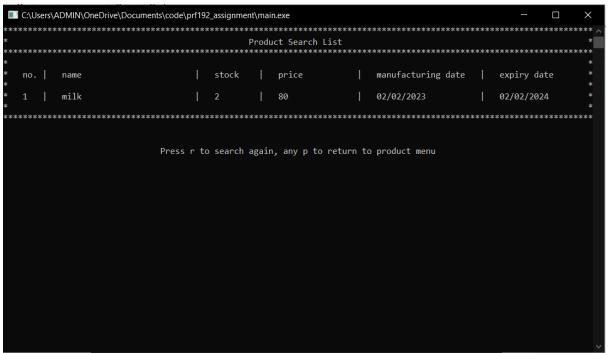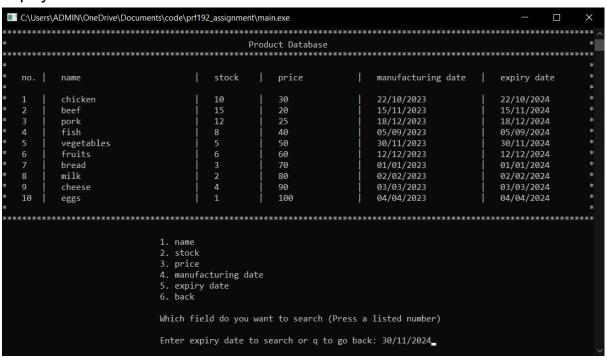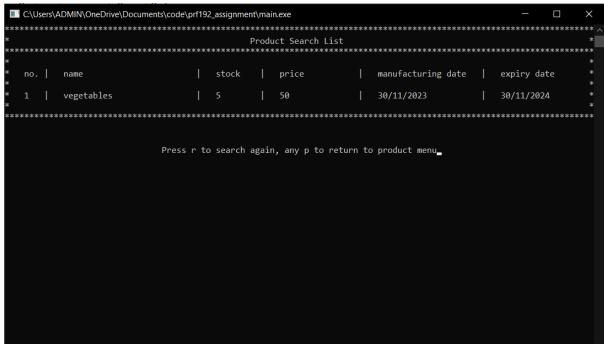
```
C:\Users\ADMIN\OneDrive\Documents\code\prf192_assignment\main.exe                    —    □    ×
*********************************************************************************************
*                                  Product Search List                                     *
*********************************************************************************************
*                                                                                          *
*  no. |  name                     |  stock   |  price    |  manufacturing date |  expiry date  *
*                                                                                          *
*                                                                                          *
*********************************************************************************************


                                      Not found!

                    Press r to search again, any p to return to product menu
```

TASK 5: Export data to a text file.

5.1 OPEN FILE IN TERMINAL

5.2 OPEN THE FILE IN DISPLAY ON EXPLORER

TASK 6: DELETE MATCHED ITEM
6.1 ERROR OPTION:

6.2 DELETE NAME:
Before

```
C:\IA18D\MENUasigment.exe                                                    —    □    ×
**********************************************************************************
*                              Product Database                                 *
**********************************************************************************
*                                                                               *
*  no. |   name              |   stock  |   price    |  manufacturing date |   expiry date   *
*                                                                               *
*  1   |   chicken           |   10     |   30       |  22/10/2023         |   22/10/2024    *
*  2   |   beef              |   15     |   20       |  15/11/2023         |   15/11/2024    *
*  3   |   pork              |   12     |   25       |  18/12/2023         |   18/12/2024    *
*  4   |   fish              |   8      |   40       |  05/09/2023         |   05/09/2024    *
*  5   |   vegetables        |   5      |   50       |  30/11/2023         |   30/11/2024    *
*  6   |   fruits            |   6      |   60       |  12/12/2023         |   12/12/2024    *
*  7   |   bread             |   3      |   70       |  01/01/2023         |   01/01/2024    *
*  8   |   milk              |   2      |   80       |  02/02/2023         |   02/02/2024    *
*  9   |   cheese            |   4      |   90       |  03/03/2023         |   03/03/2024    *
*  10  |   eggs              |   1      |   100      |  04/04/2023         |   04/04/2024    *
*                                                                               *
**********************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

                    Which field do you want an item to delete in (Press a listed number)

                    Enter name to search or q to go back: chicken_
```
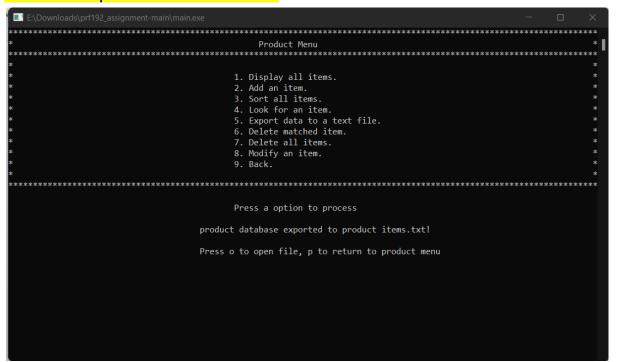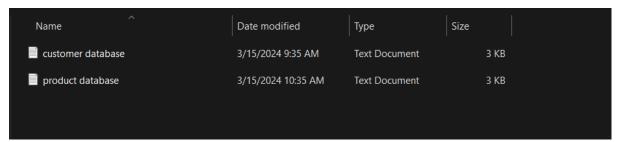
After

```
C:\IA18D\MENUasigment.exe                                                    —    □    ×
**********************************************************************************
*                              Product Database                                 *
**********************************************************************************
*                                                                               *
*  no. |   name              |   stock  |   price    |  manufacturing date |   expiry date   *
*                                                                               *
*  1   |   beef              |   15     |   20       |  15/11/2023         |   15/11/2024    *
*  2   |   pork              |   12     |   25       |  18/12/2023         |   18/12/2024    *
*  3   |   fish              |   8      |   40       |  05/09/2023         |   05/09/2024    *
*  4   |   vegetables        |   5      |   50       |  30/11/2023         |   30/11/2024    *
*  5   |   fruits            |   6      |   60       |  12/12/2023         |   12/12/2024    *
*  6   |   bread             |   3      |   70       |  01/01/2023         |   01/01/2024    *
*  7   |   milk              |   2      |   80       |  02/02/2023         |   02/02/2024    *
*  8   |   cheese            |   4      |   90       |  03/03/2023         |   03/03/2024    *
*  9   |   eggs              |   1      |   100      |  04/04/2023         |   04/04/2024    *
*                                                                               *
**********************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

                    Which field do you want an item to delete in (Press a listed number)
```

6.3 DELETE STOCK

Before

After

6.4 DELETE PRICE

Before

```
C:\IA18D\MENUasigment.exe                                                          —   □   ×

***********************************************************************************************
*                                    Product Database                                        *
***********************************************************************************************
*                                                                                            *
*  no. |   name                 |  stock  |   price     |  manufacturing date  |  expiry date *
*                                                                                            *
*  1   |   pork                 |  12     |   25        |  18/12/2023          |  18/12/2024  *
*  2   |   fish                 |  8      |   40        |  05/09/2023          |  05/09/2024  *
*  3   |   vegetables           |  5      |   50        |  30/11/2023          |  30/11/2024  *
*  4   |   fruits               |  6      |   60        |  12/12/2023          |  12/12/2024  *
*  5   |   bread                |  3      |   70        |  01/01/2023          |  01/01/2024  *
*  6   |   milk                 |  2      |   80        |  02/02/2023          |  02/02/2024  *
*  7   |   cheese               |  4      |   90        |  03/03/2023          |  03/03/2024  *
*  8   |   eggs                 |  1      |   100       |  04/04/2023          |  04/04/2024  *
*                                                                                            *
***********************************************************************************************

                       1. name
                       2. stock
                       3. price
                       4. manufacturing date
                       5. expiry date
                       6. back

           Which field do you want an item to delete in (Press a listed number)

           Enter price to search or q to go back: 60
```

After

```
C:\IA18D\MENUasigment.exe                                                          —   □   ×

***********************************************************************************************
*                                    Product Database                                        *
***********************************************************************************************
*                                                                                            *
*  no. |   name                 |  stock  |   price     |  manufacturing date  |  expiry date *
*                                                                                            *
*  1   |   pork                 |  12     |   25        |  18/12/2023          |  18/12/2024  *
*  2   |   fish                 |  8      |   40        |  05/09/2023          |  05/09/2024  *
*  3   |   vegetables           |  5      |   50        |  30/11/2023          |  30/11/2024  *
*  4   |   bread                |  3      |   70        |  01/01/2023          |  01/01/2024  *
*  5   |   milk                 |  2      |   80        |  02/02/2023          |  02/02/2024  *
*  6   |   cheese               |  4      |   90        |  03/03/2023          |  03/03/2024  *
*  7   |   eggs                 |  1      |   100       |  04/04/2023          |  04/04/2024  *
*                                                                                            *
***********************************************************************************************

                       1. name
                       2. stock
                       3. price
                       4. manufacturing date
                       5. expiry date
                       6. back

           Which field do you want an item to delete in (Press a listed number)
```
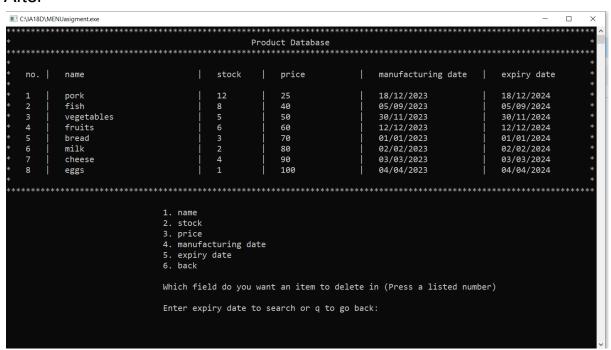
6.5 DELETE MANUFACTURING DATE

Before


```
C:\IA18D\MENUasigment.exe                                    —    □    ×
*****************************************************************************
*                           Product Database                              *
*****************************************************************************
*                                                                         *
*   no. |   name              |  stock  |   price    |  manufacturing date  |  expiry date    *
*                                                                         *
*   1   |   pork              |  12     |   25       |  18/12/2023          |  18/12/2024     *
*   2   |   fish              |  8      |   40       |  05/09/2023          |  05/09/2024     *
*   3   |   vegetables        |  5      |   50       |  30/11/2023          |  30/11/2024     *
*   4   |   bread             |  3      |   70       |  01/01/2023          |  01/01/2024     *
*   5   |   milk              |  2      |   80       |  02/02/2023          |  02/02/2024     *
*   6   |   cheese            |  4      |   90       |  03/03/2023          |  03/03/2024     *
*   7   |   eggs              |  1      |   100      |  04/04/2023          |  04/04/2024     *
*                                                                         *
*****************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

          Which field do you want an item to delete in (Press a listed number)

          Enter manufacturing date to search or q to go back: 18/12/2023
```
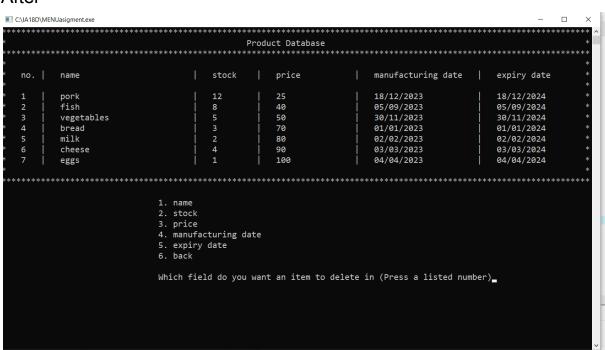
After


```
C:\IA18D\MENUasigment.exe                                    —    □    ×
*****************************************************************************
*                           Product Database                              *
*****************************************************************************
*                                                                         *
*   no. |   name              |  stock  |   price    |  manufacturing date  |  expiry date    *
*                                                                         *
*   1   |   fish              |  8      |   40       |  05/09/2023          |  05/09/2024     *
*   2   |   vegetables        |  5      |   50       |  30/11/2023          |  30/11/2024     *
*   3   |   bread             |  3      |   70       |  01/01/2023          |  01/01/2024     *
*   4   |   milk              |  2      |   80       |  02/02/2023          |  02/02/2024     *
*   5   |   cheese            |  4      |   90       |  03/03/2023          |  03/03/2024     *
*   6   |   eggs              |  1      |   100      |  04/04/2023          |  04/04/2024     *
*                                                                         *
*****************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

          Which field do you want an item to delete in (Press a listed number)
```
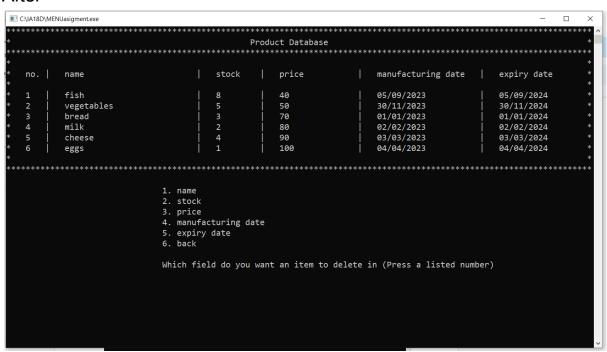
6.6 DELETE EXPIRY DATE
Before


```
*****************************************************************************************
*                                  Product Database                                    *
*****************************************************************************************
*                                                                                      *
*  no. |  name                  |  stock    |  price      |  manufacturing date  |  expiry date     *
*                                                                                      *
*  1   |  fish                  |  8        |  40         |  05/09/2023          |  05/09/2024      *
*  2   |  vegetables            |  5        |  50         |  30/11/2023          |  30/11/2024      *
*  3   |  bread                 |  3        |  70         |  01/01/2023          |  01/01/2024      *
*  4   |  milk                  |  2        |  80         |  02/02/2023          |  02/02/2024      *
*  5   |  cheese                |  4        |  90         |  03/03/2023          |  03/03/2024      *
*  6   |  eggs                  |  1        |  100        |  04/04/2023          |  04/04/2024      *
*                                                                                      *
*****************************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

               Which field do you want an item to delete in (Press a listed number)

               Enter expiry date to search or q to go back: 03/03/2024
```

After


```
*****************************************************************************************
*                                  Product Database                                    *
*****************************************************************************************
*                                                                                      *
*  no. |  name                  |  stock    |  price      |  manufacturing date  |  expiry date     *
*                                                                                      *
*  1   |  fish                  |  8        |  40         |  05/09/2023          |  05/09/2024      *
*  2   |  vegetables            |  5        |  50         |  30/11/2023          |  30/11/2024      *
*  3   |  bread                 |  3        |  70         |  01/01/2023          |  01/01/2024      *
*  4   |  milk                  |  2        |  80         |  02/02/2023          |  02/02/2024      *
*  5   |  eggs                  |  1        |  100        |  04/04/2023          |  04/04/2024      *
*                                                                                      *
*****************************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

               Which field do you want an item to delete in (Press a listed number)
```

7.DELETE ALL ITEM
Before

After

8. MODIFY ITEM

8.1 MODIFY NAME
Before

After

8.2 MODIFY STOCK
Before

after

8.3 MODIFY PRICE
Before


```
C:\IA18D\MENUasigment.exe                                                          —    □    ×
****************************************************************************************************
*                                     Product Search List                                         *
****************************************************************************************************
*                                                                                                  *
*  no. |   name                    |   stock   |   price       |   manufacturing date  |   expiry date    *
*                                                                                                  *
*  1   |   flour                   |   10      |   30          |   22/10/2023          |   22/10/2024     *
*                                                                                                  *
****************************************************************************************************
                        1. name
                        2. stock
                        3. price
                        4. manufacturing date
                        5. expiry date
                        6. back

            Which field do you want to modify (Enter the string of number or 6 to back)    3

            Enter price or q to back:   1
```
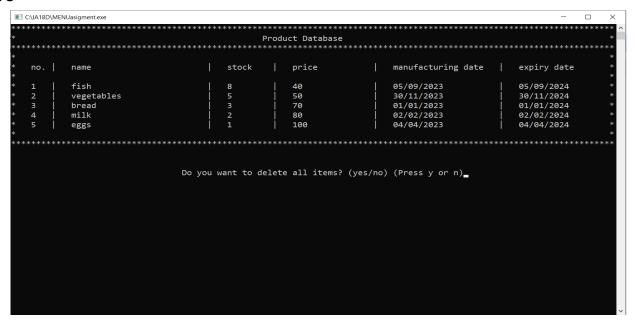
after


```
C:\IA18D\MENUasigment.exe                                                          —    □    ×
****************************************************************************************************
*                                     Product Database                                            *
****************************************************************************************************
*                                                                                                  *
*  no. |   name                    |   stock   |   price       |   manufacturing date  |   expiry date    *
*                                                                                                  *
*  1   |   flour                   |   10      |   1           |   22/10/2023          |   22/10/2024     *
*  2   |   beef                    |   1000    |   20          |   15/11/2023          |   15/11/2024     *
*  3   |   pork                    |   12      |   25          |   18/12/2023          |   18/12/2024     *
*  4   |   fish                    |   8       |   40          |   05/09/2023          |   05/09/2024     *
*  5   |   vegetables              |   5       |   50          |   30/11/2023          |   30/11/2024     *
*  6   |   fruits                  |   6       |   60          |   12/12/2023          |   12/12/2024     *
*  7   |   bread                   |   3       |   70          |   01/01/2023          |   01/01/2024     *
*  8   |   milk                    |   2       |   80          |   02/02/2023          |   02/02/2024     *
*  9   |   cheese                  |   4       |   90          |   03/03/2023          |   03/03/2024     *
*  10  |   eggs                    |   1       |   100         |   04/04/2023          |   04/04/2024     *
*                                                                                                  *
****************************************************************************************************

            Press any keys to continue edit others, p to return to product menu
```

8.4 MODIFY MANUFACTURING DATE

BEFORE


```
C:\IA18D\MENUasigment.exe                                           —    □    ✕
*************************************************************************************
*                              Product Search List                               *
*************************************************************************************
*                                                                                 *
  no. |   name              |   stock   |   price      |  manufacturing date  |   expiry date    *
                                                                                   *
  1   |   flour             |   10      |   1          |  22/10/2023          |   22/10/2024     *
                                                                                   *
*************************************************************************************

                    1. name
                    2. stock
                    3. price
                    4. manufacturing date
                    5. expiry date
                    6. back

         Which field do you want to modify (Enter the string of number or 6 to back)   4

         Enter manufacturing date or q to back:  2/2/2024_
```

AFTER


```
C:\IA18D\MENUasigment.exe                                           —    □    ✕
*************************************************************************************
*                               Product Database                                 *
*************************************************************************************
*                                                                                 *
*  no. |   name              |   stock   |   price      |  manufacturing date  |   expiry date    *
*                                                                                 *
*  1   |   flour             |   10      |   1          |  2/2/2024            |   22/10/2024     *
*  2   |   beef              |   1000    |   20         |  15/11/2023          |   15/11/2024     *
*  3   |   pork              |   12      |   25         |  18/12/2023          |   18/12/2024     *
*  4   |   fish              |   8       |   40         |  05/09/2023          |   05/09/2024     *
*  5   |   vegetables        |   5       |   50         |  30/11/2023          |   30/11/2024     *
*  6   |   fruits            |   6       |   60         |  12/12/2023          |   12/12/2024     *
*  7   |   bread             |   3       |   70         |  01/01/2023          |   01/01/2024     *
*  8   |   milk              |   2       |   80         |  02/02/2023          |   02/02/2024     *
*  9   |   cheese            |   4       |   90         |  03/03/2023          |   03/03/2024     *
*  10  |   eggs              |   1       |   100        |  04/04/2023          |   04/04/2024     *
*                                                                                 *
*************************************************************************************

              Press any keys to continue edit others, p to return to product menu
```

8.5 MODIFY EXPIRY DATE
BEFORE

```
C:\IA18D\MENUasigment.exe                                                    —    □    ×
***********************************************************************************
*                              Product Search List                               *
***********************************************************************************
*                                                                                *
*  no. |  name                |  stock  |  price       |  manufacturing date  |  expiry date   *
*                                                                                *
*  1   |  flour               |  10     |  1           |  2/2/2024            |  22/10/2024     *
*                                                                                *
***********************************************************************************
                      1. name
                      2. stock
                      3. price
                      4. manufacturing date
                      5. expiry date
                      6. back

           Which field do you want to modify (Enter the string of number or 6 to back)    5

           Enter expiry date or q to back:  2/3/2025

                            Modify item successfully!

                Press r to refresh the list, p to return to product menu
```

AFTER

```
C:\IA18D\MENUasigment.exe                                                    —    □    ×
***********************************************************************************
*                              Product Database                                  *
***********************************************************************************
*                                                                                *
*  no. |  name                |  stock  |  price       |  manufacturing date  |  expiry date   *
*                                                                                *
*  1   |  flour               |  10     |  1           |  2/2/2024            |  2/3/2025       *
*  2   |  beef                |  1000   |  20          |  15/11/2023          |  15/11/2024     *
*  3   |  pork                |  12     |  25          |  18/12/2023          |  18/12/2024     *
*  4   |  fish                |  8      |  40          |  05/09/2023          |  05/09/2024     *
*  5   |  vegetables          |  5      |  50          |  30/11/2023          |  30/11/2024     *
*  6   |  fruits              |  6      |  60          |  12/12/2023          |  12/12/2024     *
*  7   |  bread               |  3      |  70          |  01/01/2023          |  01/01/2024     *
*  8   |  milk                |  2      |  80          |  02/02/2023          |  02/02/2024     *
*  9   |  cheese              |  4      |  90          |  03/03/2023          |  03/03/2024     *
*  10  |  eggs                |  1      |  100         |  04/04/2023          |  04/04/2024     *
*                                                                                *
***********************************************************************************

                Press any keys to continue edit others, p to return to product menu
```