

PROGRAM EXECUTION



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL  
Enter password: █
```

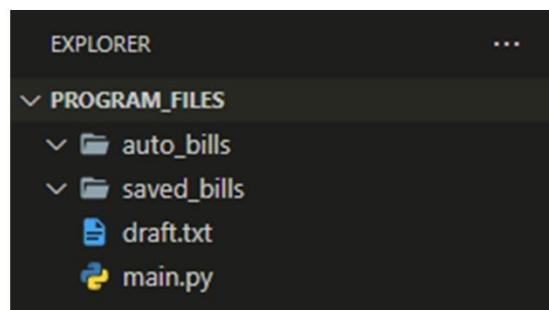
Input Hidden
for Security

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL  
Enter password:  
Access Denied :(  
Press Enter to try again█
```

Draft File Content

```
-----  
General Store  
-----  
Contact No. - 8989898989  
  
INVOICE  
  
Date : <<DATE>> Time : <<TIME>>  
  
Invoice ID : <<INVOICE>>  
Costumer Name : <<NAME>>  
  
<<TABLE>>  
  
Total Amount : Rs.<<AMOUNT>>  
-----
```

Folder Structure



Front End

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

=====
WELCOME
=====

1 -> Generate Bill
2 -> View Products
3 -> Manage Products
4 -> Search Records / Save Invoice
5 -> Change Password
0 -> Exit

=====
Enter your choice : █
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

=====
WELCOME
=====

1 -> Generate Bill
2 -> View Products
3 -> Manage Products
4 -> Search Records / Save Invoice
5 -> Change Password
0 -> Exit

=====

Enter your choice : 1
///////////
----- Enter 'n' when all Items are entered -----
Enter Product_ID, Quantity: p3,10
Enter Product_ID, Quantity: p1,10
Enter Product_ID, Quantity: p4,10
Enter Product_ID, Quantity: p2,10
Enter Product_ID, Quantity: n

Enter Costumer Name: Alice
Enter Contact Number: 8754875487

Invoice generated SUCCESSFULLY
/////////
Press Enter to choose again...█
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

=====
WELCOME
=====

1 -> Generate Bill
2 -> View Products
3 -> Manage Products
4 -> Search Records / Save Invoice
5 -> Change Password
0 -> Exit

=====

Enter your choice : 1
/////////
----- Enter 'n' when all Items are entered -----
Enter Product_ID, Quantity: ab12
Error! Enter details as (product_id,quantity)

Enter Product_ID, Quantity: ab12,
Error! Enter details as (product_id,quantity)

Enter Product_ID, Quantity: ab12,ab
Error! Enter details as (product_id,quantity)

Enter Product_ID, Quantity: ab12,12
Enter Product_ID, Quantity: p4,10
Enter Product_ID, Quantity: p1,5
Enter Product_ID, Quantity: p3,10
Enter Product_ID, Quantity: p2,5
Enter Product_ID, Quantity: n

Enter Costumer Name: Peter Parker
Enter Contact Number: 9876987698

['ab12'] NOT FOUND
Invoice generated SUCCESSFULLY
/////////
Press Enter to choose again...█
```

General Store

Contact No. - 8989898989
INVOICE
Date : 21-Feb-2022 Time : 10:44 PM
Invoice ID : 100001
Costumer Name : Peter Parker

| Item | Per Item Cost | Quantity | Amount |
|-----------|---------------|----------|--------|
| TATA Salt | 35 | 10 | 350 |
| Maggie | 10 | 5 | 50 |
| Rice | 45 | 10 | 450 |
| Sugar | 40 | 5 | 200 |

Total Amount : Rs.1050

General Store

Contact No. - 8989898989
INVOICE
Date : 22-Feb-2022 Time : 07:41 AM
Invoice ID : 100002
Costumer Name : Alice

| Item | Per Item Cost | Quantity | Amount |
|-----------|---------------|----------|--------|
| Rice | 45 | 10 | 450 |
| Maggie | 10 | 10 | 100 |
| TATA Salt | 35 | 10 | 350 |
| Sugar | 40 | 10 | 400 |

Total Amount : Rs.1300

Back End

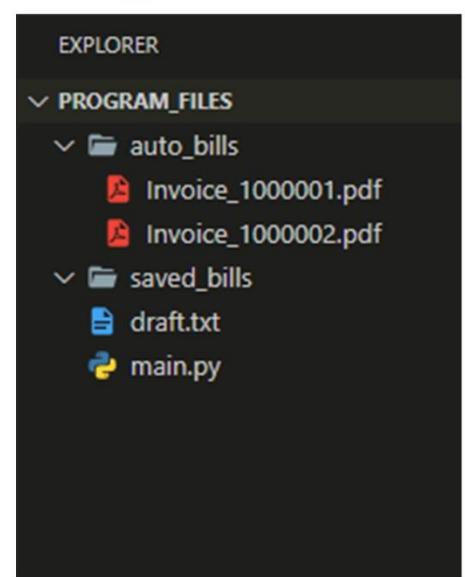
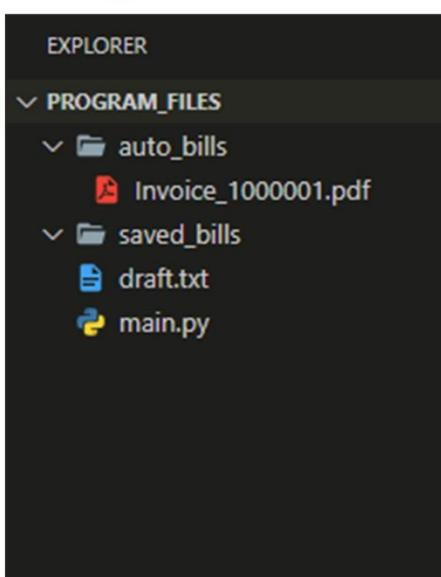
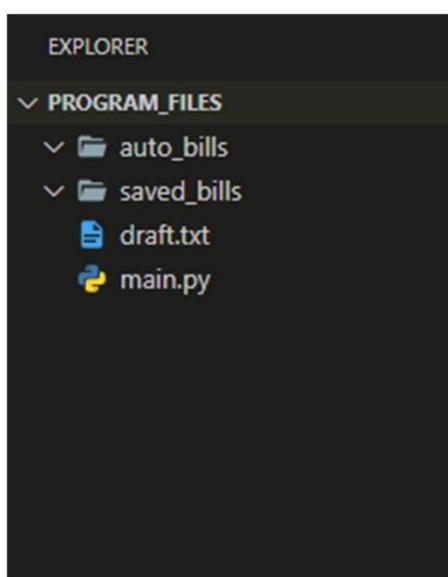
```
MariaDB [term2_project]> SELECT id,name,price FROM products;
+----+-----+-----+
| id | name   | price |
+----+-----+-----+
| p1 | Maggie | 10   |
| p2 | Sugar   | 40   |
| p3 | Rice    | 45   |
| p4 | TATA Salt | 35   |
| p5 | item5   | 10   |
| p6 | item6   | 10   |
+----+-----+-----+
```

```
MariaDB [term2_project]> SELECT date,time,bill_id,costumer_name,phone FROM data;
+-----+-----+-----+-----+-----+
| date      | time      | bill_id | costumer_name | phone      |
+-----+-----+-----+-----+-----+
| 11-Jan-1111 | 00:00 AM | 1000000 | Demo        | 1111111111 |
+-----+-----+-----+-----+-----+
```

```
MariaDB [term2_project]> SELECT date,time,bill_id,costumer_name,phone FROM data;
+-----+-----+-----+-----+-----+
| date      | time      | bill_id | costumer_name | phone      |
+-----+-----+-----+-----+-----+
| 11-Jan-1111 | 00:00 AM | 1000000 | Demo        | 1111111111 |
| 21-Feb-2022 | 10:44 PM | 1000001 | Peter Parker | 9876987698 |
+-----+-----+-----+-----+-----+
```



Folder Structure



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

WELCOME

- 1 -> Generate Bill
 - 2 -> View Products
 - 3 -> Manage Products
 - 4 -> Search Records / Save Invoice
 - 5 -> Change Password
 - 0 -> Exit

Enter your choice : 2

Details of all the products :

| Product ID | Name | Per item cost |
|------------|-----------|---------------|
| p1 | Maggie | 10 |
| p2 | Sugar | 40 |
| p3 | Rice | 45 |
| p4 | TATA Salt | 35 |
| p5 | item5 | 10 |
| p6 | item6 | 10 |

Press Enter to choose again... ▶

```
MariaDB [term2_project]> SELECT id,name,price FROM products;
+----+-----+-----+
| id | name      | price |
+----+-----+-----+
| p1 | Maggie    | 10    |
| p2 | Sugar     | 40    |
| p3 | Rice      | 45    |
| p4 | TATA Salt | 35    |
| p5 | item5     | 10    |
| p6 | item6     | 10    |
+----+-----+-----+
```

Front End

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

MANAGE PRODUCTS

1 -> Add Products
2 -> Edit Products
0 -> Go Back

Enter your choice: 0

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

MANAGE PRODUCTS

1 -> Add Products
2 -> Edit Products
0 -> Go Back

Enter your choice: 1

Enter the number of Products you want to add: abc

Error !!! Try Again

Press Enter to choose again...■

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

MANAGE PRODUCTS

1 -> Add Products
2 -> Edit Products
0 -> Go Back

Enter your choice: 1

Enter the number of Products you want to add: 3

Enter details in form - << product_id,product_name,price >>

Enter details of product 1: p1,abc,10
Enter details of product 2: p3,bcd,10
Enter details of product 3: p2,cde,10

['p1', 'p3', 'p2'] already assigned, use different Product ID

0 out of 3 products added SUCCESSFULLY

Press Enter to choose again...■

=====
MANAGE PRODUCTS
=====

```
1 -> Add Products
2 -> Edit Products
0 -> Go Back
```

```
Enter your choice: 1
```

```
Enter the number of Products you want to add: 1
```

```
Enter details in form - << product_id,product_name,price >>
```

```
Enter details of product 1: p7,item7,10
```

```
All products added SUCCESSFULLY
```

```
Press Enter to choose again...■
```

```
MariaDB [term2_project]> SELECT id,name,price FROM products;
```

| id name price |
|---------------------|
| p1 Maggie 10 |
| p2 Sugar 40 |
| p3 Rice 45 |
| p4 TATA Salt 35 |
| p5 item5 10 |
| p6 item6 10 |

```
MariaDB [term2_project]> SELECT id,name,price FROM products;
```

| id name price |
|---------------------|
| p1 Maggie 10 |
| p2 Sugar 40 |
| p3 Rice 45 |
| p4 TATA Salt 35 |
| p5 item5 10 |
| p6 item6 10 |
| p7 item7 10 |



MANAGE PRODUCTS

```
1 -> Add Products  
2 -> Edit Products  
0 -> Go Back
```

```
Enter your choice: 1
```

```
Enter the number of Products you want to add: 5
```

```
Enter details in form - << product_id,product_name,price >>
```

```
Enter details of product 1: p1,abc,10  
Enter details of product 2: p8,item8,100  
Enter details of product 3: p9,item,200  
Enter details of product 4: p3,efg,100  
Enter details of product 5: p10,item10,300
```

```
['p1', 'p3'] already assigned, use different Product ID
```

```
3 out of 5 products added SUCCESSFULLY
```

```
Press Enter to choose again...■
```

```
MariaDB [term2_project]> SELECT id,name,price FROM products;  
+---+-----+-----+  
| id | name   | price |  
+---+-----+-----+  
| p1 | Maggie | 10   |  
| p2 | Sugar  | 40   |  
| p3 | Rice   | 45   |  
| p4 | TATA Salt | 35   |  
| p5 | item5  | 10   |  
| p6 | item6  | 10   |  
| p7 | item7  | 10   |  
| p8 | item8  | 100  |  
| p9 | item   | 200  |  
| p10 | item10 | 300  |  
+---+-----+-----+
```

MANAGE PRODUCTS

```
1 -> Add Products  
2 -> Edit Products  
0 -> Go Back
```

```
Enter your choice: 1
```

```
Enter the number of Products you want to add: 1
```

```
Enter details in form - << product_id,product_name,price >>
```

```
Enter details of product 1:  
Error! Enter details in correct format
```

```
Enter details of product 1: abc  
Error! Enter details in correct format
```

```
Enter details of product 1: abc,  
Error! Enter details in correct format
```

```
Enter details of product 1: abc,ab  
Error! Enter details in correct format
```

```
Enter details of product 1: abc,ab,  
Error! Enter details in correct format
```

```
Enter details of product 1: abc,ab,a  
Error! Enter details in correct format
```

```
Enter details of product 1: p1,abc,1
```

```
['p1'] already assigned, use different Product ID
```

```
0 out of 1 products added SUCCESSFULLY
```

```
Press Enter to choose again... █
```

All Possible
Exceptions
Handled

=====
MANAGE PRODUCTS
=====

1 -> Add Products
 2 -> Edit Products
 0 -> Go Back

Enter your choice: 2

— Enter 'n' when all Product IDs are entered —

Enter Product ID : a2
 Enter Product ID : a6
 Enter Product ID : n

['a2', 'a6'] NOT FOUND

0 out of 2 products edited SUCCESSFULLY

Press Enter to choose again...■

=====
MANAGE PRODUCTS
=====

1 -> Add Products
 2 -> Edit Products
 0 -> Go Back

Enter your choice: 2

— Enter 'n' when all Product IDs are entered —

Enter Product ID : p5
 Enter Product ID : p6
 Enter Product ID : n

Enter new (name,price) for 'p5' (item5,10): Namkeen,65
 Enter new (name,price) for 'p6' (item6,10): Oil,180

All products edited SUCCESSFULLY

Press Enter to choose again...■

MariaDB [term2_project]> SELECT id,name,price FROM products;

| id name price |
|---------------------|
| p1 Maggie 10 |
| p2 Sugar 40 |
| p3 Rice 45 |
| p4 TATA Salt 35 |
| p5 item5 10 |
| p6 item6 10 |
| p7 item7 10 |
| p8 item8 100 |
| p9 item 200 |
| p10 item10 300 |

MariaDB [term2_project]> SELECT id,name,price FROM products;

| id name price |
|---------------------|
| p1 Maggie 10 |
| p2 Sugar 40 |
| p3 Rice 45 |
| p4 TATA Salt 35 |
| p5 Namkeen 65 |
| p6 Oil 180 |
| p7 item7 10 |
| p8 item8 100 |
| p9 item 200 |
| p10 item10 300 |



=====
MANAGE PRODUCTS
=====

```
1 -> Add Products
2 -> Edit Products
0 -> Go Back
```

```
=====  
Enter your choice: 2
```

```
--- Enter 'n' when all Product IDs are entered ---
```

```
Enter Product ID : p9
Enter Product ID : a3
Enter Product ID : p7
Enter Product ID : a10
Enter Product ID : n
```

```
Enter new (name,price) for 'p9' (item,200): ITEM 9,50
Enter new (name,price) for 'p7' (item7,10): ITEM 7,50
```

```
['a3', 'a10'] NOT FOUND
```

```
2 out of 4 products edited SUCCESSFULLY
```

```
Press Enter to choose again...■
```

```
MariaDB [term2_project]> SELECT id,name,price FROM products;
+----+-----+-----+
| id | name      | price |
+----+-----+-----+
| p1 | Maggie    | 10   |
| p2 | Sugar     | 40   |
| p3 | Rice      | 45   |
| p4 | TATA Salt | 35   |
| p5 | Namkeen   | 65   |
| p6 | Oil        | 180  |
| p7 | ITEM 7    | 50   |
| p8 | item8     | 100  |
| p9 | ITEM 9    | 50   |
| p10| item10    | 300  |
+---+-----+-----+
```

=====
MANAGE PRODUCTS
=====

1 -> Add Products
 2 -> Edit Products
 0 -> Go Back

=====
Enter your choice: 2

— Enter 'n' when all Product IDs are entered —

Enter Product ID : p8
 Enter Product ID : a2
 Enter Product ID : p10
 Enter Product ID : n

Enter new (name,price) for 'p8' (item8,100):
 Error! Enter details in correct format

Enter new (name,price) for 'p8' (item8,100): abc
 Error! Enter details in correct format

Enter new (name,price) for 'p8' (item8,100): abc,
 Error! Enter details in correct format

Enter new (name,price) for 'p8' (item8,100): abc,ab
 Error! Enter details in correct format

Enter new (name,price) for 'p8' (item8,100): ITEM 8,500
 Enter new (name,price) for 'p10' (item10,300): ITEM 10,500

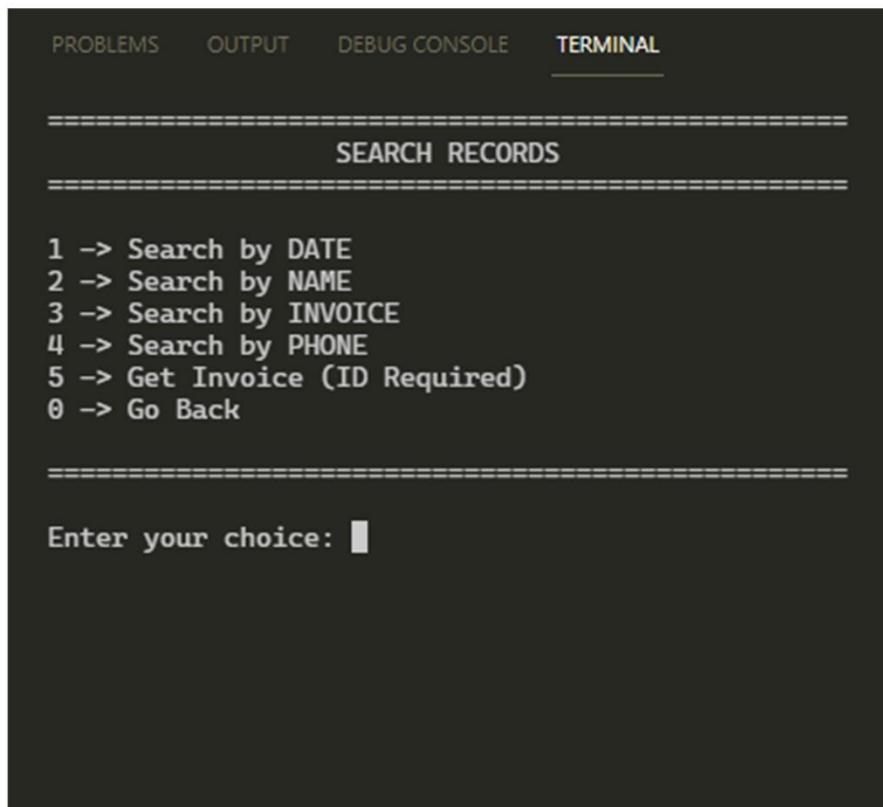
['a2'] NOT FOUND

2 out of 3 products edited SUCCESSFULLY

Press Enter to choose again... █

```
MariaDB [term2_project]> SELECT id,name,price FROM products;
+----+-----+-----+
| id | name   | price |
+----+-----+-----+
| p1 | Maggie | 10   |
| p2 | Sugar   | 40   |
| p3 | Rice    | 45   |
| p4 | TATA Salt | 35   |
| p5 | Namkeen | 65   |
| p6 | Oil     | 180  |
| p7 | ITEM 7  | 50   |
| p8 | ITEM 8  | 500  |
| p9 | ITEM 9  | 50   |
| p10| ITEM 10 | 500  |
+---+-----+-----+
```

Front End



A screenshot of a terminal window titled "TERMINAL". The window has tabs for "PROBLEMS", "OUTPUT", "DEBUG CONSOLE", and "TERMINAL". The main area displays a menu titled "SEARCH RECORDS" with the following options:

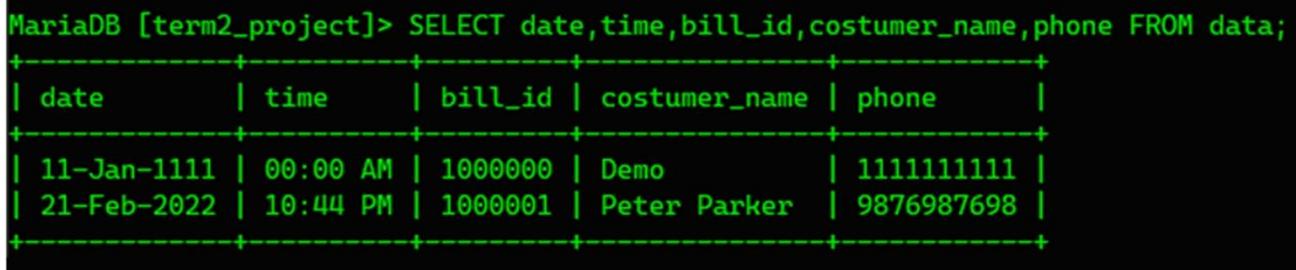
```
=====
SEARCH RECORDS
=====

1 -> Search by DATE
2 -> Search by NAME
3 -> Search by INVOICE
4 -> Search by PHONE
5 -> Get Invoice (ID Required)
0 -> Go Back

=====
```

Below the menu, there is a prompt "Enter your choice: " followed by a cursor.

Back End



```
MariaDB [term2_project]> SELECT date,time,bill_id,costumer_name,phone FROM data;
+-----+-----+-----+-----+
| date      | time     | bill_id | costumer_name | phone      |
+-----+-----+-----+-----+
| 11-Jan-1111 | 00:00 AM | 1000000 | Demo          | 1111111111 |
| 21-Feb-2022 | 10:44 PM | 1000001 | Peter Parker   | 9876987698 |
+-----+-----+-----+-----+
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

===== SEARCH RECORDS =====

- 1 -> Search by DATE
- 2 -> Search by NAME
- 3 -> Search by INVOICE
- 4 -> Search by PHONE
- 5 -> Get Invoice (ID Required)
- 0 -> Go Back

===== Enter your choice: 1

Enter Date in form - << 01-Jan-2001 >> : 20-Feb-2022

No Record Found

Press Enter to choose again... █

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

===== SEARCH RECORDS =====

- 1 -> Search by DATE
- 2 -> Search by NAME
- 3 -> Search by INVOICE
- 4 -> Search by PHONE
- 5 -> Get Invoice (ID Required)
- 0 -> Go Back

===== Enter your choice: 1

Enter Date in form - << 01-Jan-2001 >> : 21-Feb-2022

| Date | Time | Invoice ID | Name | Phone |
|-------------|----------|------------|--------------|------------|
| 21-Feb-2022 | 10:44 PM | 1000001 | Peter Parker | 9876987698 |

Press Enter to choose again... █

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

===== SEARCH RECORDS =====

- 1 -> Search by DATE
- 2 -> Search by NAME
- 3 -> Search by INVOICE
- 4 -> Search by PHONE
- 5 -> Get Invoice (ID Required)
- 0 -> Go Back

===== Enter your choice: 2

Enter Name: abc

No Record Found

Press Enter to choose again... █

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

===== SEARCH RECORDS =====

- 1 -> Search by DATE
- 2 -> Search by NAME
- 3 -> Search by INVOICE
- 4 -> Search by PHONE
- 5 -> Get Invoice (ID Required)
- 0 -> Go Back

===== Enter your choice: 2

Enter Name: peter

| Date | Time | Invoice ID | Name | Phone |
|-------------|----------|------------|--------------|------------|
| 21-Feb-2022 | 10:44 PM | 1000001 | Peter Parker | 9876987698 |

Press Enter to choose again... █

===== SEARCH RECORDS =====

- 1 -> Search by DATE
- 2 -> Search by NAME
- 3 -> Search by INVOICE
- 4 -> Search by PHONE
- 5 -> Get Invoice (ID Required)
- 0 -> Go Back

=====

Enter your choice: 3

Enter Invoice ID: abc

Invalid ID... Try again :(

Press Enter to choose again... █

Enter your choice: 3

Enter Invoice ID: 165485

No Record Found

Press Enter to choose again... █

Enter your choice: 3

Enter Invoice ID: 1000001

| Date | Time | Invoice ID | Name | Phone |
|-------------|----------|------------|--------------|------------|
| 21-Feb-2022 | 10:44 PM | 1000001 | Peter Parker | 9876987698 |

Press Enter to choose again... █

SEARCH RECORDS

- 1 -> Search by DATE
 - 2 -> Search by NAME
 - 3 -> Search by INVOICE
 - 4 -> Search by PHONE
 - 5 -> Get Invoice (ID Required)
 - 0 -> Go Back
-
-

Enter your choice: 4

Enter Contact Number: abc

Invalid Number... Try again :(

Press Enter to choose again... █

Enter your choice: 4

Enter Contact Number: 9898989898

No Record Found

Press Enter to choose again... █

Enter your choice: 4

Enter Contact Number: 9876987698

| Date | Time | Invoice ID | Name | Phone |
|-------------|----------|------------|--------------|------------|
| 21-Feb-2022 | 10:44 PM | 1000001 | Peter Parker | 9876987698 |

Press Enter to choose again... █

SEARCH RECORDS

- 1 -> Search by DATE
 - 2 -> Search by NAME
 - 3 -> Search by INVOICE
 - 4 -> Search by PHONE
 - 5 -> Get Invoice (ID Required)
 - 0 -> Go Back
-
-

Enter your choice: 5

Enter Invoice ID: abc123

Invalid Invoice ID, try again :(

Press Enter to choose again...█

Enter your choice: 5

Enter Invoice ID: 1000001

Invoice Saved SUCCESSFULLY

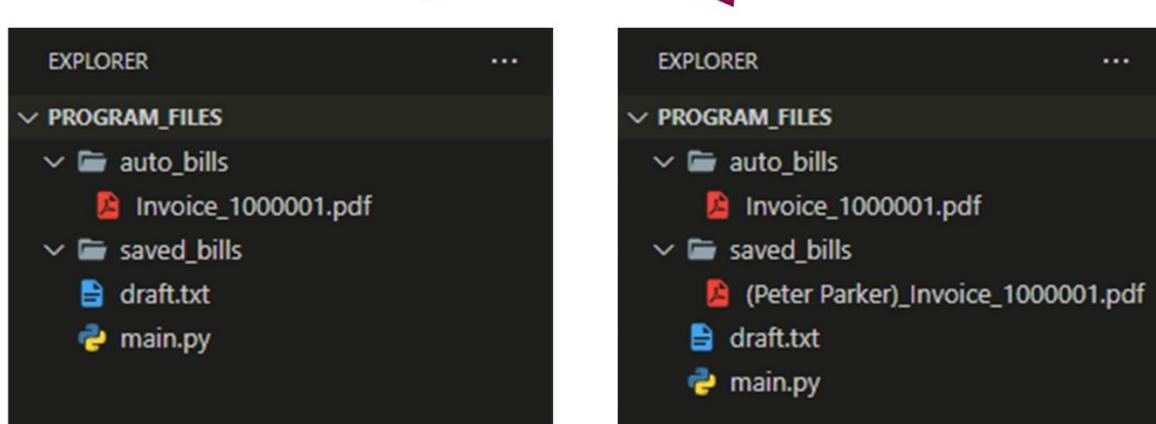
Press Enter to choose again...█

Enter your choice: 5

Enter Invoice ID: 1000001

Invoice already present in the Folder

Press Enter to choose again...█



Saved PDF

The screenshot shows a PDF document titled '(Peter Parker)_Invoice_1000001.pdf' viewed in a PDF reader. The document is a standard invoice format with the following details:

General Store
Contact No. - 8989898989
INVOICE

Date : 21-Feb-2022 Time : 10:44 PM

Invoice ID : 1000001
Costumer Name : Peter Parker

| Item | Per Item Cost | Quantity | Amount |
|-----------|---------------|----------|--------|
| TATA Salt | 35 | 10 | 350 |
| Maggie | 10 | 5 | 50 |
| Rice | 45 | 10 | 450 |
| Sugar | 40 | 5 | 200 |

Total Amount : Rs.1050

Front End

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
===== WELCOME =====

1 -> Generate Bill
2 -> View Products
3 -> Manage Products
4 -> Search Records / Save Invoice
5 -> Change Password
0 -> Exit

=====

Enter your choice : 5
////////// Enter New password:
Confirm password:
Password doesn't match try again :(

Press Enter to choose again...■
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
===== WELCOME =====

1 -> Generate Bill
2 -> View Products
3 -> Manage Products
4 -> Search Records / Save Invoice
5 -> Change Password
0 -> Exit

=====

Enter your choice : 5
////////// Enter New password:
Confirm password:
Password changed SUCCESSFULLY

Press Enter to choose again...■
```

**Input Hidden
for Security**

Back End

```
MariaDB [term2_project]> SELECT * FROM credentials;
+-----+
| password |
+-----+
| f064ba69eec828668eb9475146e336b5 |
+-----+
```

```
MariaDB [term2_project]> SELECT * FROM credentials;
+-----+
| password |
+-----+
| b4dad0fe5fbef2c0e24d9db1cc69e5a2 |
+-----+
```



MD5 Hashed Password