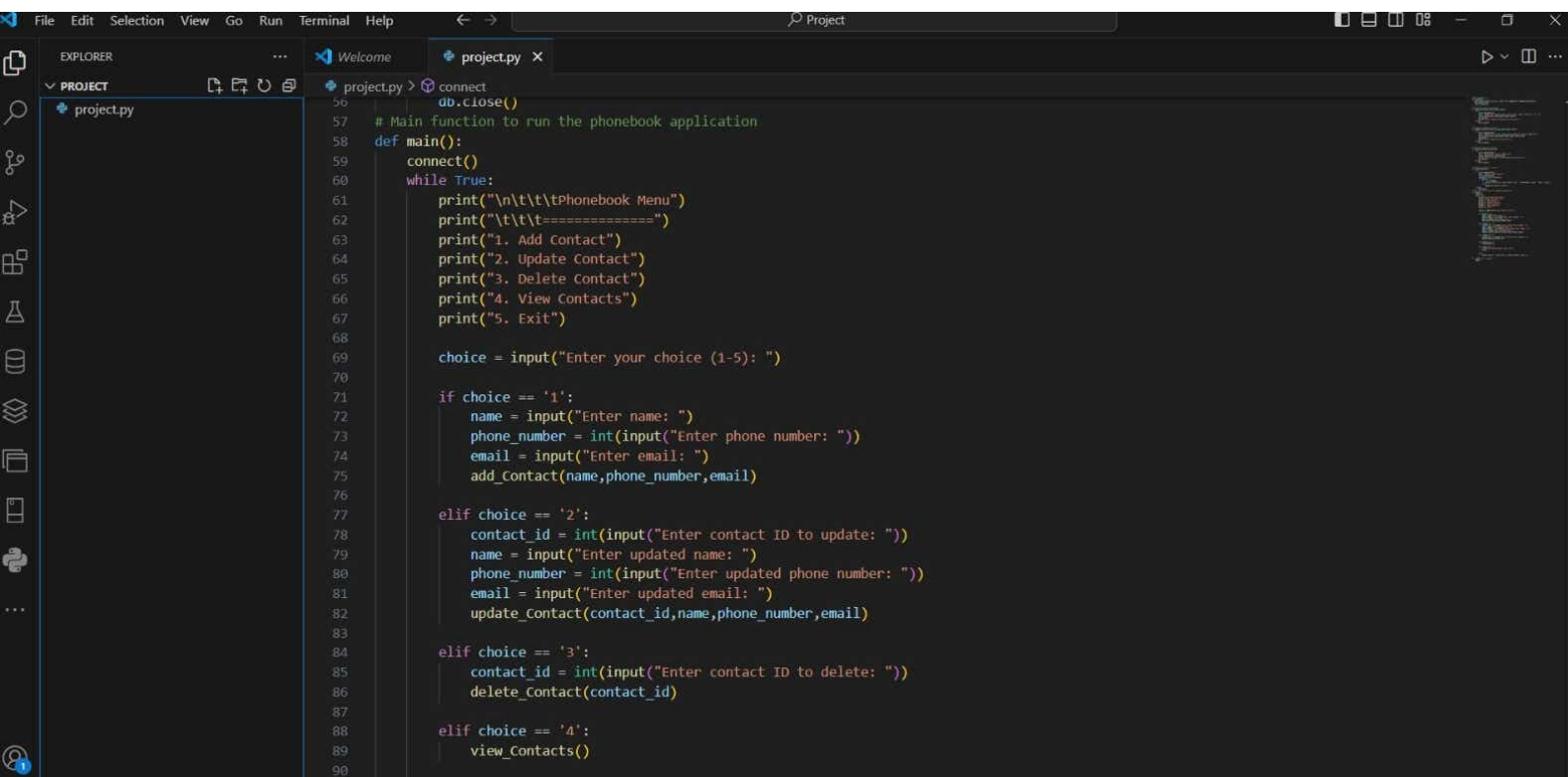


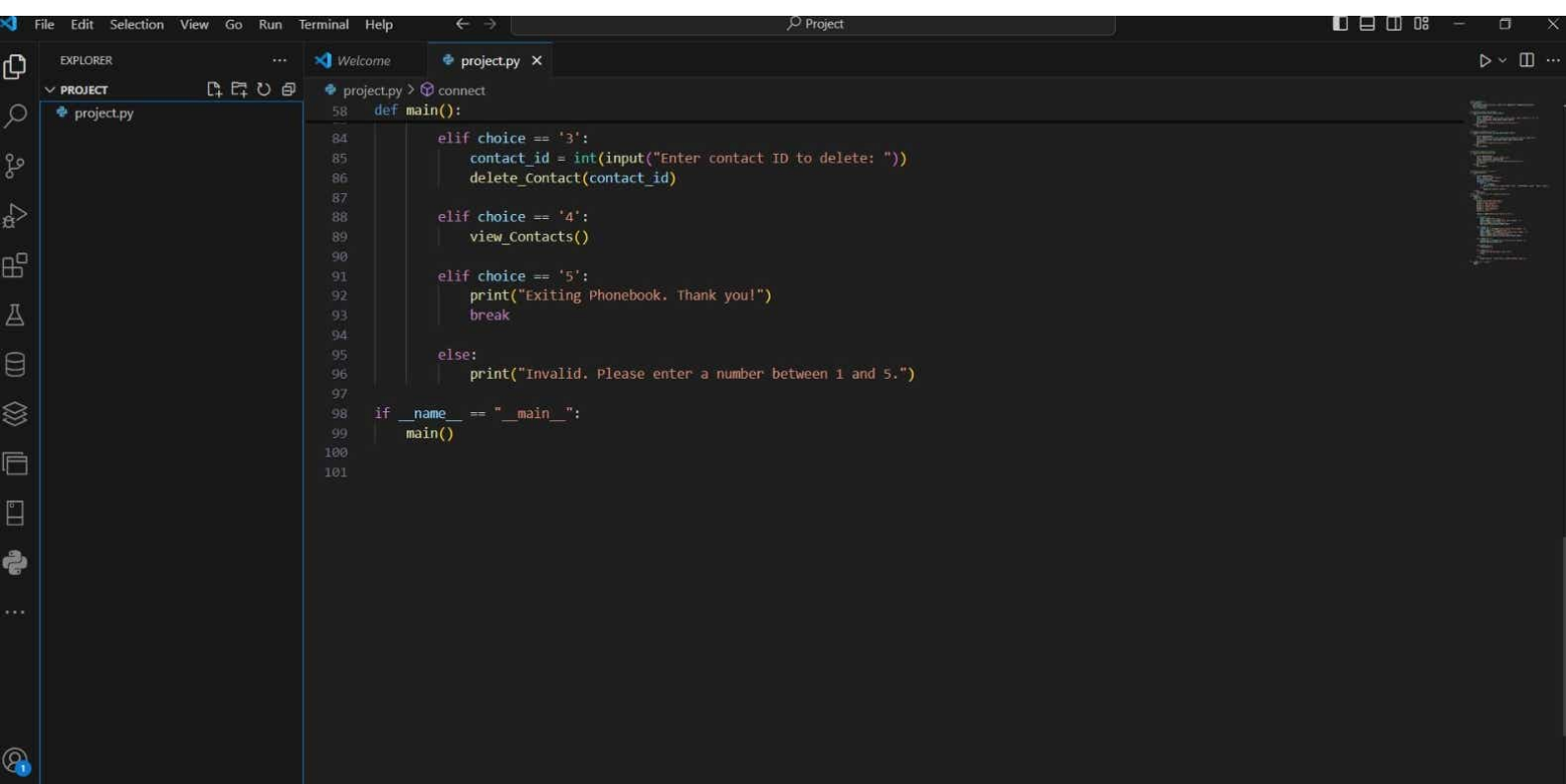
```
1 import pymysql as p
2 def connect():
3     db=p.connect(host="localhost",user="root",password="",database="phonebook")
4     cursor=db.cursor()
5     return cursor,db
6
7 # Function to add a new contact
8 def add_contact(name,phone_number,email):
9     try:
10         cursor,db=connect()
11         sql = "INSERT Into Contacts(name, phone_number, email) VALUES (%s, %s, %s)"
12         cursor.execute(sql,[name,phone_number,email])
13         db.commit()
14         print("Contact added in Phonebook successfully!!!")
15     except:
16         db.rollback()
17
18
19 # Function to update a contact
20 def update_contact(contact_id,name,phone_number,email):
21     try:
22         cursor,db=connect()
23         sql = "UPDATE Contacts SET name=%s,phone_number=%s,email=%s WHERE id=%s"
24         cursor.execute(sql,[name,phone_number,email,contact_id])
25         db.commit()
26         print("Contact updated successfully!!!")
27     except:
28         db.rollback()
29
30
31 # Function to delete a contact
32 def delete_contact(contact_id):
33     try:
34         cursor,db=connect()
35         sql = "DELETE FROM contacts WHERE id=%s"
```

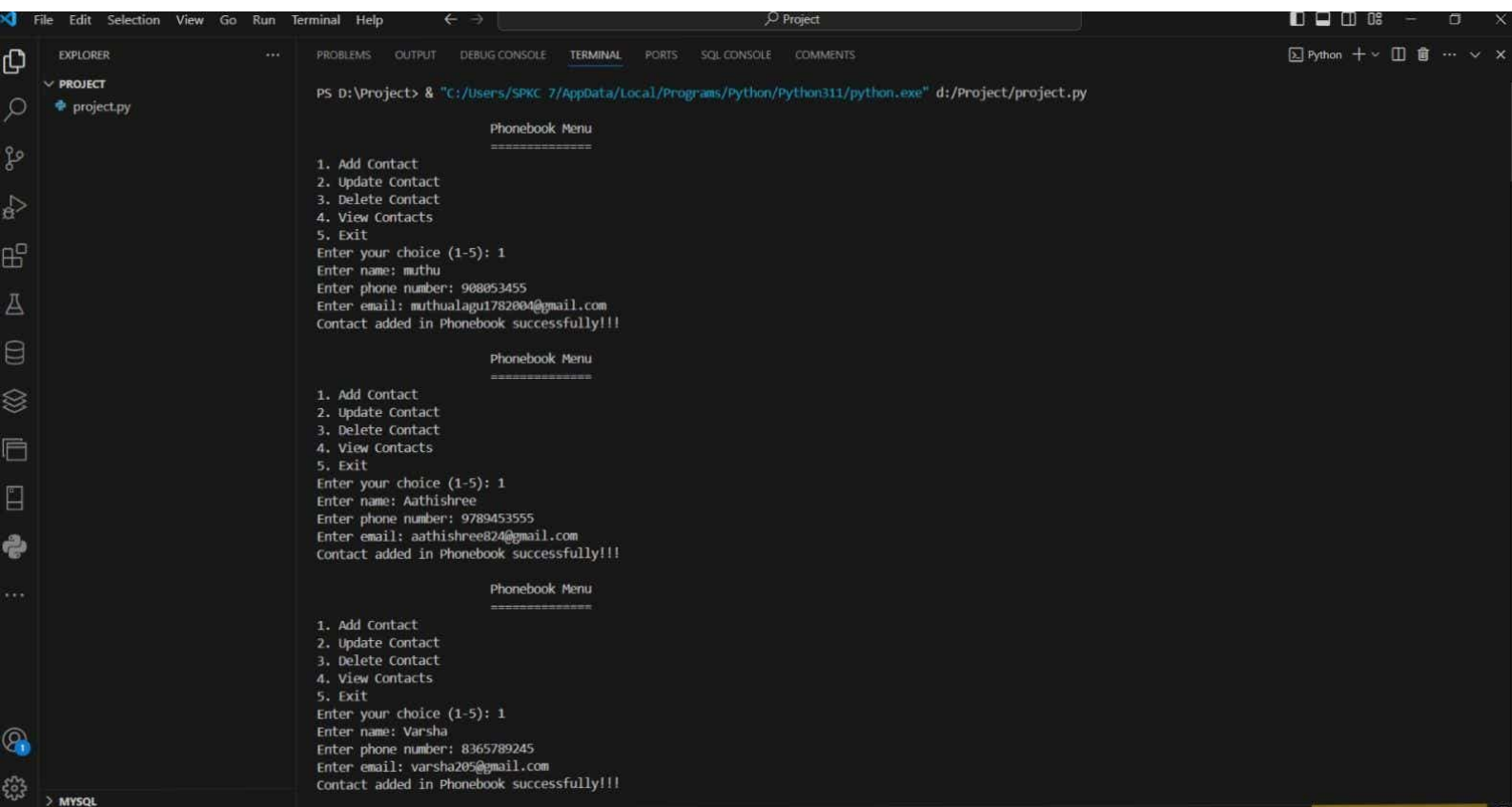
```
File Edit Selection View Go Run Terminal Help
Project

EXPLORER
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project.py

project.py > connect
30
31 # Function to delete a contact
32 def delete_contact(contact_id):
33     try:
34         cursor,db=connect()
35         sql = "DELETE FROM contacts WHERE id=%s"
36         cursor.execute(sql,[contact_id])
37         print("Contact deleted from phonebook successfully!!!")
38         db.commit()
39     except:
40         db.rollback()
41
42
43 # Function to view all contacts
44 def view_contacts():
45     try:
46         cursor,db=connect()
47         sql = "SELECT * FROM contacts"
48         cursor.execute(sql)
49         contacts = cursor.fetchall()
50         if contacts:
51             for i in contacts:
52                 print(f"CONTACT_ID: {i[0]} NAME: {i[1]} PHONENUMBER: {i[2]} EMAIL: {i[3]}")
53             else:
54                 print("No contacts found.")
55         finally:
56             db.close()
57 # Main function to run the phonebook application
58 def main():
59     connect()
60     while True:
61         print("\n\t\t\tPhonebook Menu")
62         print("\t\t\t-----")
63         print("1. Add Contact")
64         print("2. Update Contact")
65         print("3. Delete Contact")
```







The screenshot shows a Visual Studio Code interface with a terminal window open. The terminal displays the execution of a Python script named 'project.py' located at 'd:/Project/project.py'. The script is a phonebook application with a menu of five options: 1. Add Contact, 2. Update Contact, 3. Delete Contact, 4. View Contacts, and 5. Exit. The user has chosen option 1 three times, each time providing a name, phone number, and email address. The application successfully adds each contact and displays a confirmation message.

```
PS D:\Project> & "C:/Users/SPKC_7/AppData/Local/Programs/Python/Python311/python.exe" d:/Project/project.py

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: muthu
Enter phone number: 908053455
Enter email: muthualagu1782004@gmail.com
Contact added in Phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: Aathishree
Enter phone number: 9789453555
Enter email: aathishree824@gmail.com
Contact added in Phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: Varsha
Enter phone number: 8365789245
Enter email: varsha205@gmail.com
Contact added in Phonebook successfully!!!
```

```
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Project

EXPLORER
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project.py

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE COMMENTS
Python

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: Rathinam
Enter phone number: 6374115408
Enter email: rathinam824@gmail.com
Contact added in Phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: Gayathri
Enter phone number: 7667242070
Enter email: Gayathri
Contact added in Phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: Harini
Enter phone number: 7664242070
Enter email: harini720@gmail.com
Contact added in Phonebook successfully!!!
```

```
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EXPLORER
PROJECT
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE COMMENTS
Python + -

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 4
CONTACT_ID: 1 NAME: muthu PHONENUMBER: 908053455 EMAIL: muthualagu1782004@gmail.com
CONTACT_ID: 2 NAME: Aathishree PHONENUMBER: 2147483647 EMAIL: aathishree824@gmail.com
CONTACT_ID: 3 NAME: Varsha PHONENUMBER: 2147483647 EMAIL: varsha205@gmail.com
CONTACT_ID: 4 NAME: Rathinam PHONENUMBER: 2147483647 EMAIL: rathinam824@gmail.com
CONTACT_ID: 5 NAME: Gayathri PHONENUMBER: 2147483647 EMAIL: Gayathri
CONTACT_ID: 6 NAME: Harini PHONENUMBER: 2147483647 EMAIL: harini720@gmail.com
No contacts found.

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 2
Enter contact ID to update: 5
Enter updated name: Gayathri
Enter updated phone number: 9080675678
Enter updated email: gayathri578@gmail.com
Contact updated successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 2
```

```
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Project

EXPLORER
PROJECT
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE COMMENTS
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Contact updated successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 2
Enter contact ID to update: 1
Enter updated name: Muthualagu
Enter updated phone number: 7895672463
Enter updated email: muthualagu63@gmail.com
Contact updated successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: xyz
Enter phone number: 2345667789
Enter email: xyz23467@gmail.com
Contact added in Phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 3
Enter contact ID to delete: 7
Contact deleted from phonebook successfully!!!
```



```
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Project

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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE COMMENTS
Python + -

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 3
Enter contact ID to delete: 7
Contact deleted from phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 1
Enter name: Shanmu
Enter phone number: 9876875423
Enter email: shanmu567@gmail.com
Contact added in Phonebook successfully!!!

Phonebook Menu
=====
1. Add Contact
2. Update Contact
3. Delete Contact
4. View Contacts
5. Exit
Enter your choice (1-5): 4
CONTACT_ID: 1 NAME: Muthualagu PHONENUMBER: 2147483647 EMAIL: muthualagu63@gmail.com
CONTACT_ID: 2 NAME: Aathishree PHONENUMBER: 2147483647 EMAIL: aathishree824@gmail.com
CONTACT_ID: 3 NAME: Varsha PHONENUMBER: 2147483647 EMAIL: varsha205@gmail.com
CONTACT_ID: 4 NAME: Rathinam PHONENUMBER: 2147483647 EMAIL: rathinam824@gmail.com
CONTACT_ID: 5 NAME: Gayathri PHONENUMBER: 2147483647 EMAIL: gayathri578@gmail.com
CONTACT_ID: 6 NAME: Harini PHONENUMBER: 2147483647 EMAIL: harini720@gmail.com
```

