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Test Case ID	Description	Input	Expected Output	Actual Output	Pass/Fail
TC1	Program starts and displays menu	Program execution	Menu options displayed (v/a/d/q)	Select an operation: v view contacts a add contact d delete contact q quit Enter choice (v/a/d/q):	Passed
TC2	View contacts when contacts exist	Choice = v	Display list of contacts with ID, name, and number	Enter choice (v/a/d/q): v ------- view_contacts ------- 1 Miles 001 2 Jones 002	Passed
TC3	Add a new contact	Choice = a, Name = Rahul, Number = 99999	Contact added message shown	Enter choice (v/a/d/q): a ------- add_contact ------- Enter contact name: Smith Enter contact number: 003 Smith - 003 has been added into the contact list	Passed
TC4	View contacts after adding a contact	Choice = v	Updated contact list displayed	Enter choice (v/a/d/q): v ------- view_contacts ------- 1 Miles 001 2 Jones 002 3 Smith 003	Passed
TC5	Delete a contact using valid ID	Choice = d, ID = 1	Selected contact deleted	Enter choice (v/a/d/q): d ------- delete_contact ------- 1 Miles 001 2 Jones 002 3 Smith 003 Enter the ID of the contact to delete: 1 Deleting: Miles	Passed

| TC6 | Delete contact with invalid ID | Choice = d, ID = 10 | "Invalid ID!" message | ```
Enter choice (v/a/d/q): d

------- delete_contact -------

1 Jones          002
2 Smith          003
Enter the ID of the contact to delete: 9999
Invalid ID!
``` | Passed |
|---|---|---|---|---|---|
| TC7 | Enter invalid menu option | Choice = x | Invalid choice message shown | ```
Enter choice (v/a/d/q): r

------- Invalid choice -------
Try again...
``` | Passed |
| TC8 | Quit program | Choice = q | Program exits | ```
Select an operation:
v view contacts
a add contact
d delete contact
q quit

Enter choice (v/a/d/q): q
Exiting program...
``` | Passed |
| TC9 | Delete contact using non-numeric ID | Choice = d, ID = abc | Error message and deletion should not occur | ```
Enter choice (v/a/d/q): d

------- delete_contact -------

1 Miles          001
2 Jones          002
Enter the ID of the contact to delete: abc
Please enter a valid number!
``` | Failed |
| TC10 | View contacts when contact list is empty | Choice = v after deleting all contacts | "No contacts to display!" message | ```
Enter choice (v/a/d/q): v

------- view_contacts -------

No contacts to display!
``` | Failed |