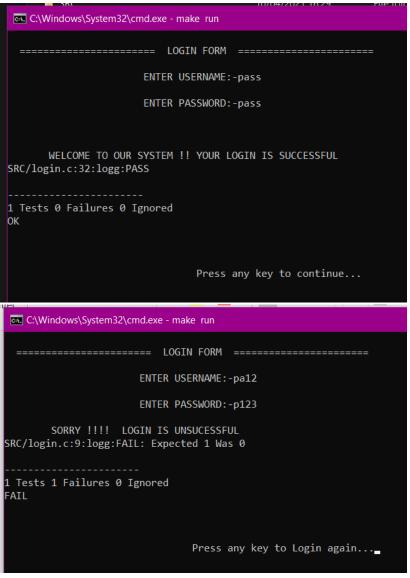
## Test Plan

```
Using Unity Framework
Modules Tested
Process for Unit Testing
  1. Import Unity Utilities
     #include "../unity/unity.h"
     #include "../unity/unity_internals.h"
  2. Add unity functions
     void setUp(){}
  3. void tearDown(){}
  4. Add unity methods pass function to it
      UNITY BEGIN();
      RUN TEST (check train num);
      UNITY END();
  5. Write that method add test case statement
    void check train num (void)
    {
          TEST ASSERT EQUAL ('y', confirm);
    }
  1. Login Module
        Username:pass
        Password:pass
        This data will pass the test case rest will be failed
```



## 2. Booking Module

User accept(y) the confirmation

Test case will pass if rejects(n) will fail the test case

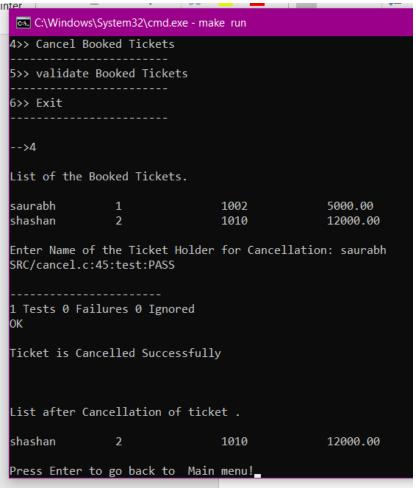
Note :char y/n will check by ASCII value.

```
inter D 1 9 and A2 A (A) A 1
  C:\Windows\System32\cmd.exe - make run
  -----
        TICKET
                      shashan
 Number Of Seats:
                      2
 Train Number:
                      1010
 train:
                      Meteor Express
 Destination:
                     Miami to Boston
 Departure:
                     1.15
                      12000.00
 Charges:
 Confirm Ticket (y/n):>y
 SRC/reservation.c:48:check_train_num:PASS
 1 Tests 0 Failures 0 Ignored
 _____
  Reservation Done
 Press any key to go back to Main menu_
  C:\Windows\System32\cmd.exe - make run
```

```
SRC 10/04/2021 16:29 File fo
       TICKET
                     shashan
Number Of Seats:
Train Number:
                    1010
train:
                    Meteor Express
Destination:
                   Miami to Boston
Departure:
                    1.15
Charges:
                    30000.00
Confirm Ticket (y/n):>n
SRC/reservation.c:10:check_train_num:FAIL: Expected 121 Was 110
1 Tests 1 Failures 0 Ignored
FAIL
Reservation Not Done!
Press any key to go back to Main menu!
```

## 3. Cancel Ticket Module

Ticket Holder exist in the list it will cancel the ticket and test case will pass if it doesn't exist it will fail

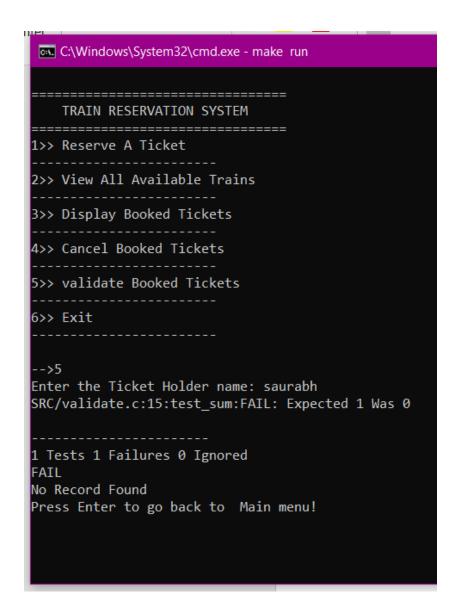


```
C:\Windows\System32\cmd.exe - make run
     TRAIN RESERVATION SYSTEM
 1>> Reserve A Ticket
 2>> View All Available Trains
 3>> Display Booked Tickets
 4>> Cancel Booked Tickets
 5>> validate Booked Tickets
 6>> Exit
 -->4
List of the Booked Tickets.
<sub>s</sub>shashan
                 2
                                 1010
                                                 12000.00
Enter Name of the Ticket Holder for Cancellation: saurabh
iSRC/cancel.c:18:test:FAIL: Expected 1 Was 0
1 Tests 1 Failures 0 Ignored
 No record found for this Name
iPress Enter to go back to Main menu!
```

## 4. Validation of Ticket Module

To check whether user present in the list if it present test case will pass if it not present it will fails

IIIE
C:\Windows\System32\cmd.exe - make run
TRAIN RESERVATION SYSTEM
1>> Reserve A Ticket
2>> View All Available Trains
3>> Display Booked Tickets
4>> Cancel Booked Tickets
5>> validate Booked Tickets
6>> Exit
>5 Enter the Ticket Holder name: shashan shashan 2 1010 12000.00 SRC/validate.c:22:test_sum:PASS
1 Tests 0 Failures 0 Ignored OK Ticket Holder exist check the list to confirm Once
Press Enter to go back to Main menu!



Conclusion: Unit Testing implemented successfully.