

## Output Screen:

"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"

WELCOME TO RAILWAY ENQUIRY

1.Administrator      2.Pasenger.

3.Exit.

Login as: i

Enter LoginID: 8888

Enter Password: 24680

Build messages CppCheck CppCheck messages Cscope Debugger Doxygen

\oops proj.exe

esktop\oops proj\bin\Debug\oops proj.exe" (in C:\Users\acer\Desktop\oops proj\..)

C:\Users\acer\Desktop\oops proj\main.cpp

Windows (C:\Users\acer)

WINDOWS-1252 Line 1, Column 1 Insert Read/Write default

1:33 PM 12/13/2020

This screenshot shows a Windows desktop environment. In the foreground, a command-line window titled "C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe" displays a menu for a railway enquiry system. The menu includes options for Administrator, Passenger, Exit, and a login section where "Login as: i" is selected. Below the menu, the user has entered their login ID as "8888" and password as "24680". To the right of the command-line window is a code editor window showing the source code for "oops proj.cpp". The code editor interface includes tabs for "Build messages", "CppCheck", "CppCheck messages", "Cscope", "Debugger", and "Doxygen". The code itself contains a single line: "\oops proj.exe". The taskbar at the bottom of the screen shows various icons for common Windows applications like File Explorer, Internet Explorer, and Media Player. The system tray indicates the date and time as 12/13/2020 and 1:33 PM.

"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"

ADMINISTRATION MENU

1.Trains Schedule.

2.Pasenger Data.

3.Booking.

4.Cancellation.

5.Logout.

Enter Your Choice: 1

Build messages CppCheck CppCheck messages Cscope Debugger Doxygen

\oops proj.exe

esktop\oops proj\bin\Debug\oops proj.exe" (in C:\Users\acer\Desktop\oops proj\..)

C:\Users\acer\Desktop\oops proj\main.cpp

Windows (C:\Users\acer)

WINDOWS-1252 Line 1, Column 1 Insert Read/Write default

1:34 PM 12/13/2020

This screenshot shows the same Windows desktop environment as the previous one. However, the command-line window now displays an "ADMINISTRATION MENU" instead of a "RAILWAY ENQUIRY" menu. The menu options listed are Trains Schedule, Passenger Data, Booking, Cancellation, and Logout. The user has selected option 1, "Trains Schedule". The code editor window to the right is still showing the "oops proj.cpp" file with the line "\oops proj.exe". The taskbar and system tray are identical to the first screenshot, showing the date and time as 12/13/2020 and 1:34 PM.

"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"

TRAIN SCHEDULE

1.Insert.  
2.Display Schedule.  
3.Search.  
4.Delete  
5.Update.  
6.Exit

Enter your choice: 1-

Build messages CppCheck CppCheck messages Cscope Debugger Doxygen

\oops proj.exe (in C:\Users\acer\Desktop\oops proj\.)

WINDOWS-1252 Line 1, Column 1 Insert Read/Write default

1:37 PM 12/13/2020

### Home Screen

### Administration Menu

### Choice Entered: Train Schedule

"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"

INSERTING TRAIN DATA

Enter Train ID: 100

Enter Train Name: Rajdhani express

Enter Date of Departure:  
Enter Timings of Departure: 08.30

Train ID	Train Name	Date	Timings
100	Rajdhani	express	08.30

It Will be Displayed to the passengers.....

Build messages CppCheck CppCheck messages Cscope Debugger Doxygen

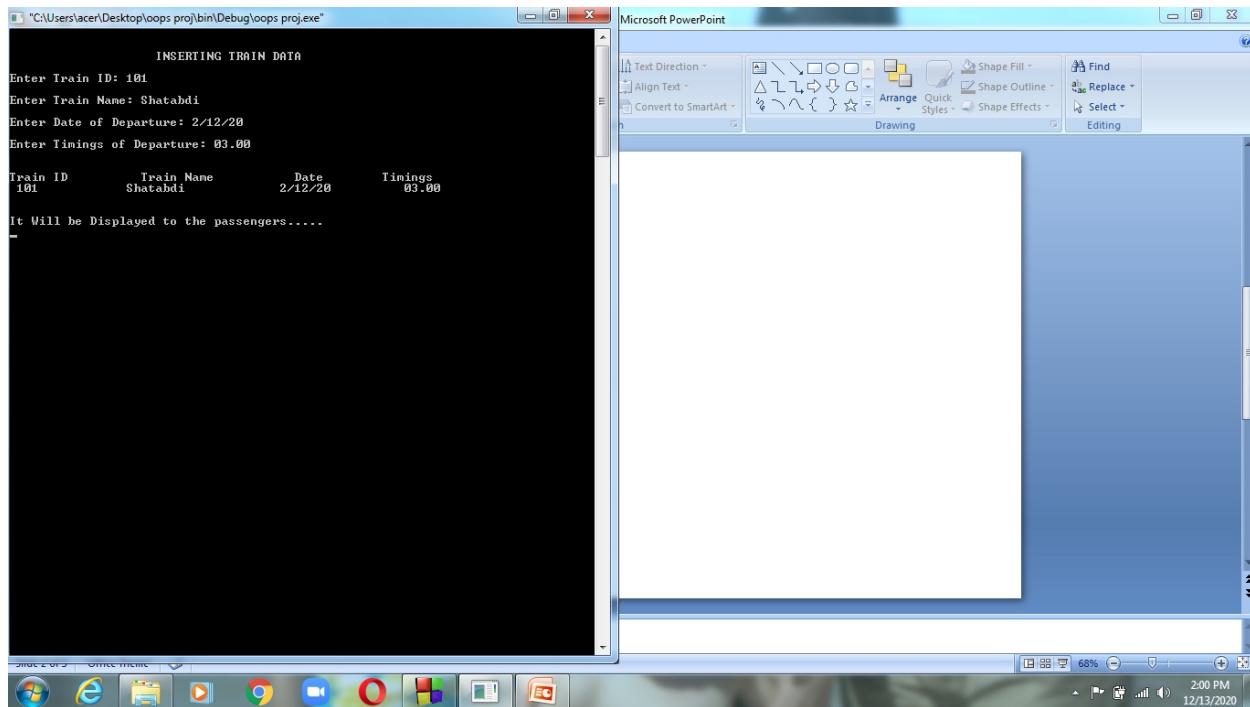
\oops proj.exe (in C:\Users\acer\Desktop\oops proj\.)

WINDOWS-1252 Line 1, Column 1 Insert Read/Write default

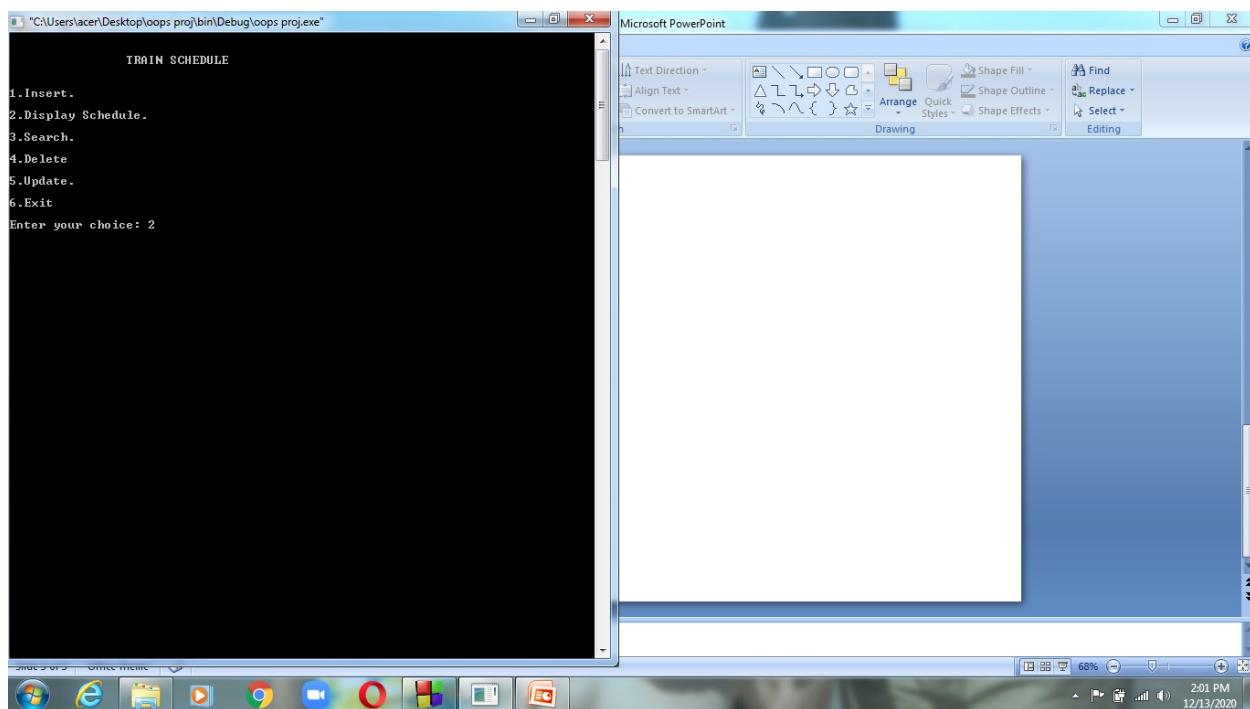
1:38 PM 12/13/2020

### Train Schedule

### Choice Entered: Insert



## Inserting Train Data



## Inserting Another Train Data

Train Schedule  
Choice Entered: Display

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
DISPLAYING TRAIN SCHEDULE
TRAIN SCHEDULE
.....TRAIN SCHEDULE.....
Train ID      Train Name      Date      Timings
100          Rajdhani       1/12/20    12.30
101          Shatabdi        2/12/20    03.00

Build messages  CppCheck  CppCheck messages  Cscope  Debugger  Doxygen
r) -----
\oops proj.exe
desktop\oops proj\bin\Debug\oops proj.exe" (in C:\Users\acer\Desktop\oops proj\.)

C:\Users\acer\Desktop\oops proj\main.cpp  Windows (CR+LF)  WINDOWS-1252  Line 1, Column 1  Insert  Read/Write  default  2:02 PM  12/13/2020
```

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
TRAIN SCHEDULE
1.Insert.
2.Display Schedule.
3.Search.
4.Delete.
5.Update.
6.Exit
Enter your choice: 3

Build messages  CppCheck  CppCheck messages  Cscope  Debugger  Doxygen
r) -----
\oops proj.exe
desktop\oops proj\bin\Debug\oops proj.exe" (in C:\Users\acer\Desktop\oops proj\.)

C:\Users\acer\Desktop\oops proj\main.cpp  Windows (CR+LF)  WINDOWS-1252  Line 1, Column 1  Insert  Read/Write  default  2:02 PM  12/13/2020
```

## Displaying Train Schedule Train Schedule Choice Entered: Search

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
SEARCH FOR A TRAIN
Enter Train Name to search: Rajdhani
Train ID      Train Name      Date      Timings
100          Rajdhani     1/12/20     12.30
```

(r) -----  
\oops proj.exe  
esktop\oops proj\bin\Debug\oops proj.exe" (in C:\Users\acer\Desktop\oops proj\.)

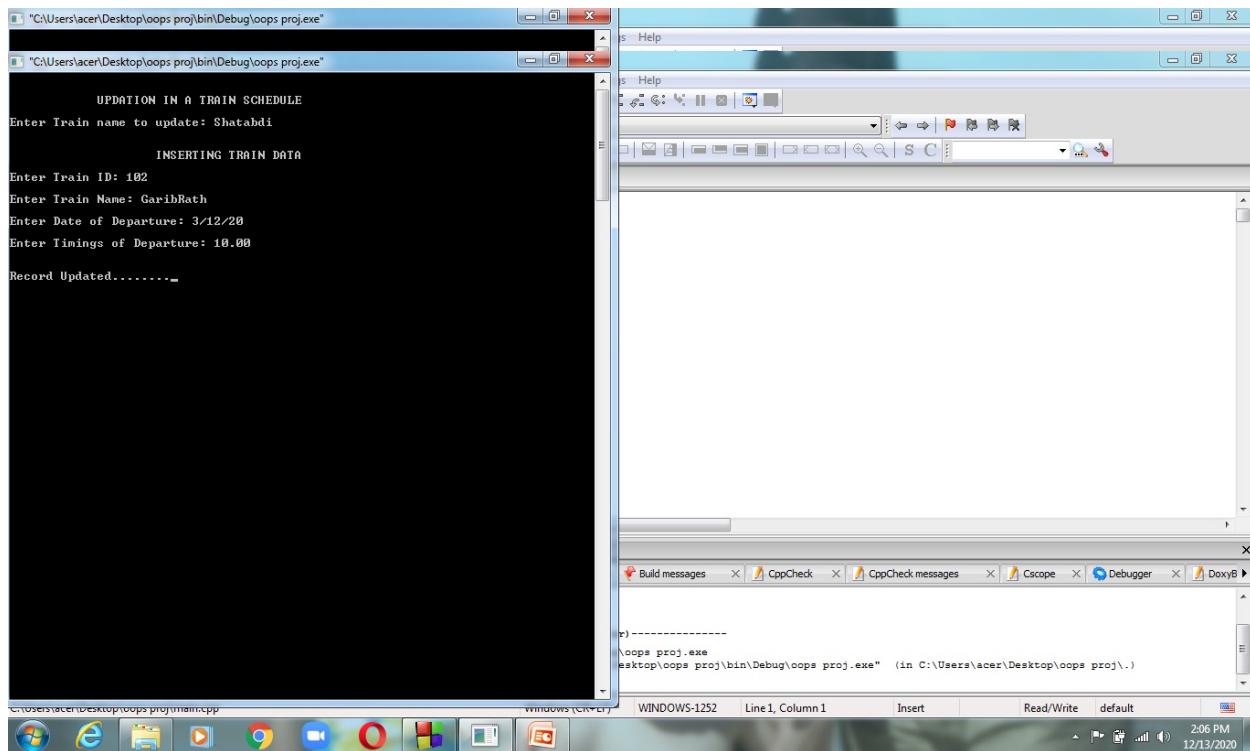
```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
TRAIN SCHEDULE
1.Insert.
2.Display Schedule.
3.Search.
4.Delete
5.Update.
6.Exit
Enter your choice: 4

(r) -----  
\oops proj.exe  
esktop\oops proj\bin\Debug\oops proj.exe" (in C:\Users\acer\Desktop\oops proj\.)
```

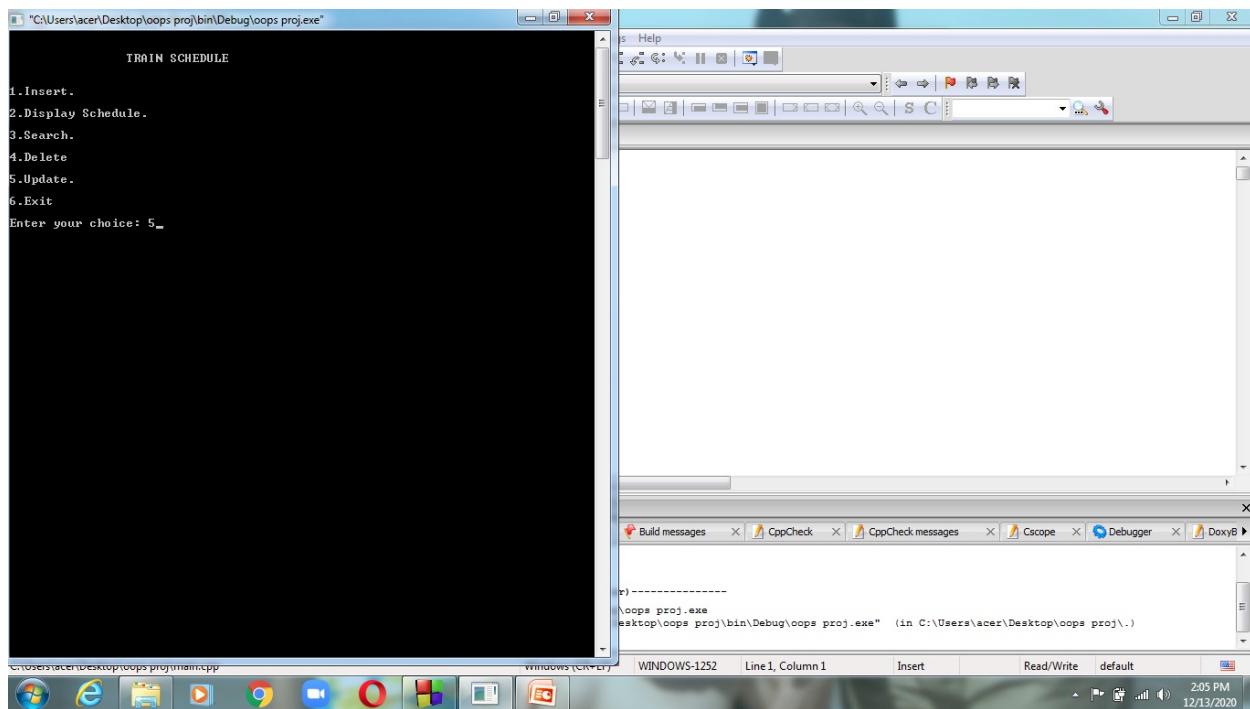
Searching for a Train  
Train Schedule  
Choice Entered: Delete

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"

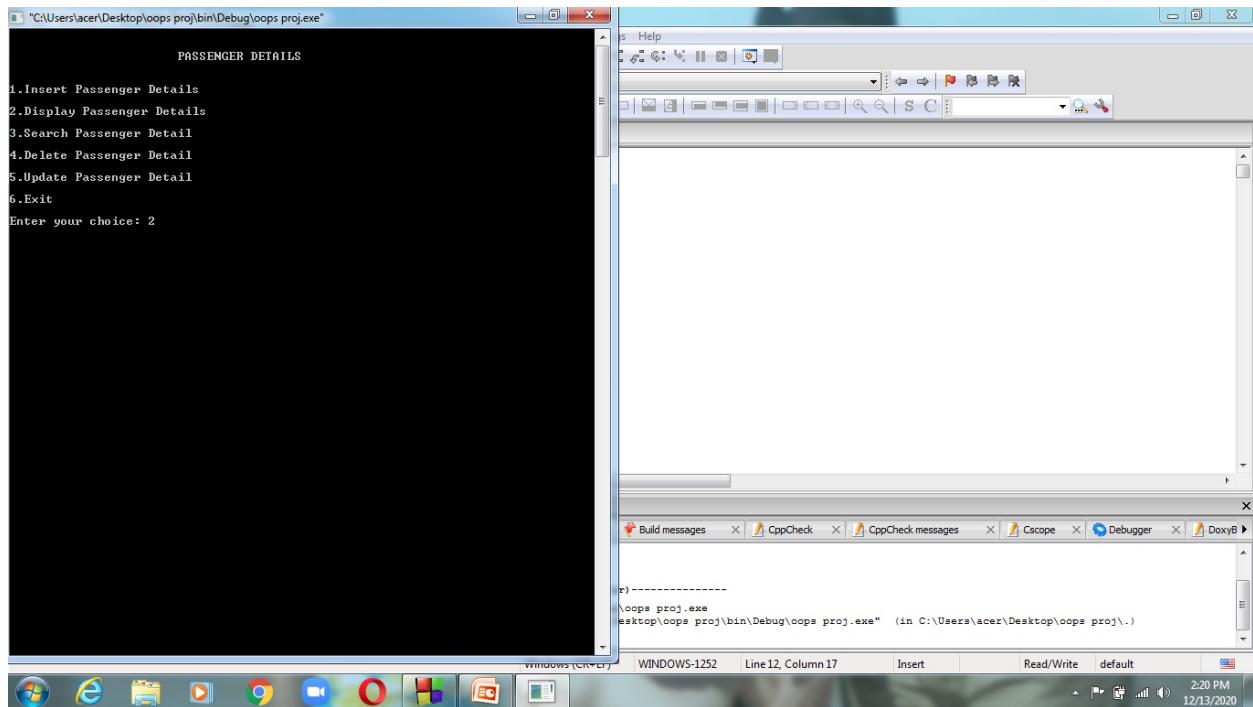
        UPDATION IN A TRAIN SCHEDULE
Enter Train name to update: Shatabdi
        INSERTING TRAIN DATA
Enter Train ID: 102
Enter Train Name: GaribRath
Enter Date of Departure: 3/12/20
Enter Timings of Departure: 10.00
Record Updated.....
```



```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
TRAIN SCHEDULE
1.Insert.
2.Display Schedule.
3.Search.
4.Delete
5.Update.
6.Exit
Enter your choice: 5_
```



## Deleting from a Train Schedule



**Train Schedule**  
**Choice Entered: Update**

**Updation in a Train Schedule**  
**Train Schedule**  
**Choice Entered: Exit**

**Administration Menu**  
**Choice Entered: Passenger Data**  
**Passenger Details**  
**Choice Entered: Insert**  
**Insertion of Passenger Data**

**Insertion of Another Passenger Data**

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
PASSENGER DETAILS
1.Insert Passenger Details
2.Display Passenger Details
3.Search Passenger Detail
4.Delete Passenger Detail
5.Update Passenger Detail
6.Exit
Enter your choice: 3

r) -----
\oops proj.exe
desktop\oops proj\bin\Debug\oops proj.exe"  (in C:\Users\acer\Desktop\oops proj\.)

WINDOWS-1252  Line12, Column17  Insert  Read/Write  default
2:21 PM  12/13/2020
```

**Passenger Details**  
**Choice Entered: Display**  
**Displaying Passenger Data**

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
TRAIN SCHEDULE
1.Insert.
2.Display Schedule.
3.Search.
4.Delete.
5.Update.
6.Exit
Enter your choice: 6
EXITING.......
```

**Passenger Details**  
**Choice Entered: Search**

A screenshot of a Windows desktop environment. On the left, a terminal window titled "C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe" displays a menu for "PASSENGER DETAILS" with options 1 through 6. The user has selected option 6, "Exit", and the message "ENTERING....." is displayed. On the right, a code editor window shows C++ code related to the project. The bottom status bar indicates the window is titled "WINDOWS (C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe)", the encoding is "WINDOWS-1252", the line is "Line12, Column 17", and the time is "2:24 PM 12/13/2020".

## Searching Passenger Data

A screenshot of a Windows desktop environment. On the left, a terminal window titled "C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe" displays a menu for "PASSENGER DETAILS" with options 1 through 6. The user has selected option 1, "Insert Passenger Details", and the message "ENTERING....." is displayed. On the right, a code editor window shows C++ code related to the project. The bottom status bar indicates the window is titled "WINDOWS (C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe)", the encoding is "WINDOWS-1252", the line is "Line1, Column 1", and the time is "2:09 PM 12/13/2020".

## Passenger Details

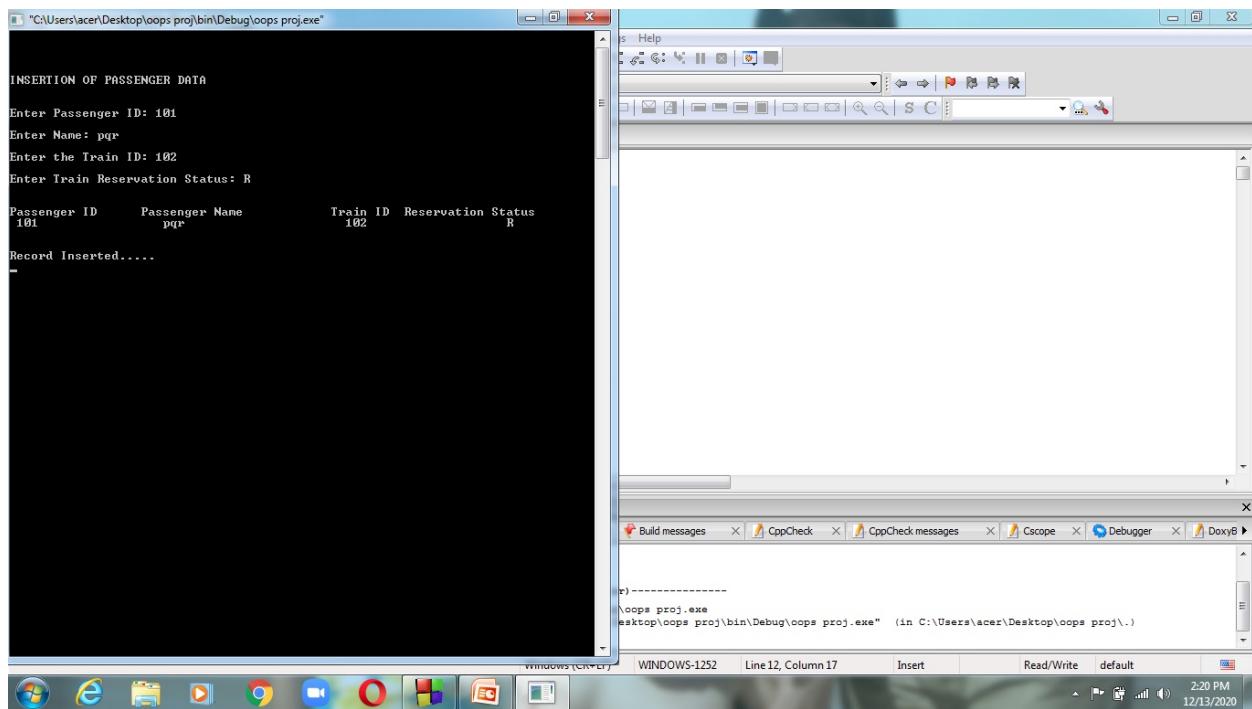
**Choice Entered: Delete**

### **Deletion of Passenger Data**

**Passenger Details  
Choice Entered: Update**

### **Updation of Passenger Data**

### **Exiting Passenger Details**



```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
CANCELLATION
Enter your Passenger ID: 100
Your Account Number: 243
Rs.225 will be refunded back within 5 working days to your Bank Account 243
```

```
"C:\Users\acer\Desktop\oops proj\bin\Debug\oops proj.exe"
DISPLAYING PASSENGER DATA
Data of Passenger is.....
Passenger ID      Passenger Name      Train ID  Reservation Status
100              abc                  102        R
101              pqr                  102        R
```

The screenshot shows a Windows desktop environment with two command-line windows and a debugger interface.

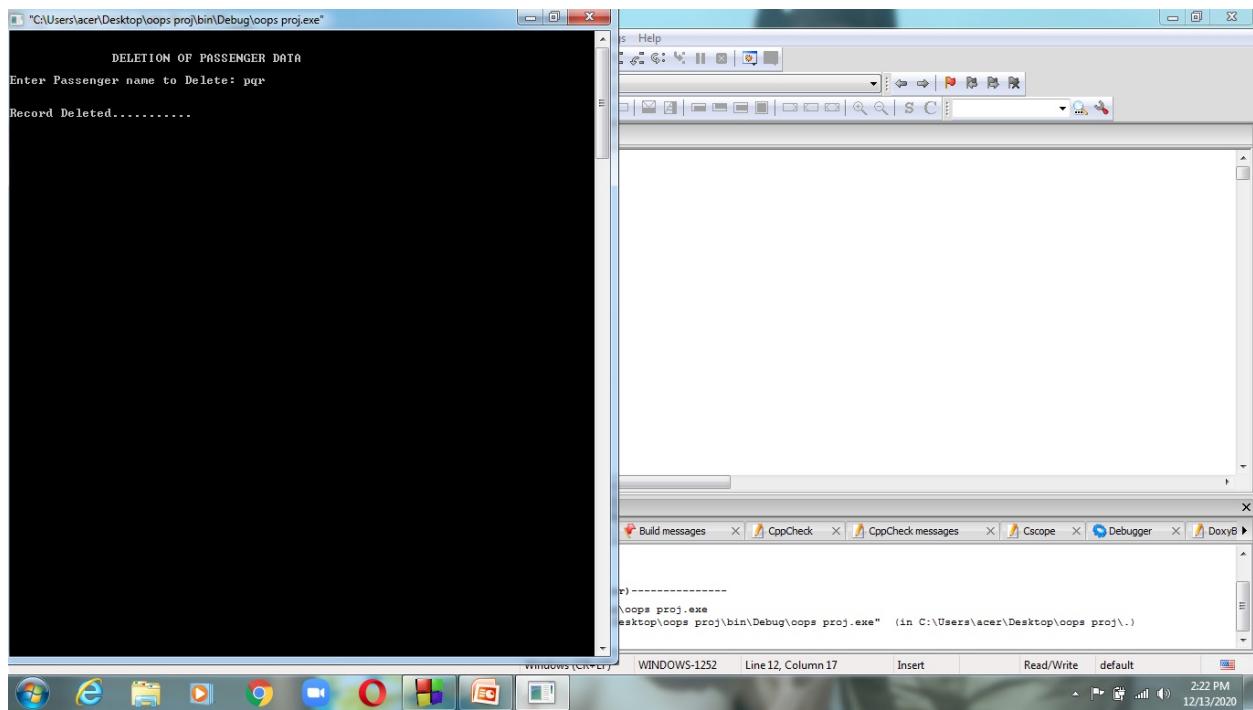
The top window displays the output of a search operation:

```
SEARCHING PASSENGER DATA
Enter Passenger Name to search: pqr
Passenger ID      Passenger Name      Train ID  Reservation Status
101                pqr                 102       R
```

The bottom window displays a menu for passenger details:

```
PASSENGER DETAILS
1.Insert Passenger Details
2.Display Passenger Details
3.Search Passenger Detail
4.Delete Passenger Detail
5.Update Passenger Detail
6.Exit
Enter your choice: 4
```

The taskbar at the bottom shows various application icons, and the system tray indicates the date and time as 12/13/2020, 2:22 PM.



## **References**

### **1. Books**

- C++ Programming by Anshuman Sharma
- Programming in C++ by Dr. Hardeep Singh

### **2. Web URL**

- [www.tutorialspoint.com](http://www.tutorialspoint.com)
- [www.codinpsycho.blogspot.com/2011/11/file-handling-in-c++basics.html](http://www.codinpsycho.blogspot.com/2011/11/file-handling-in-c++basics.html)
- [www.geeksforgeeks.org](http://www.geeksforgeeks.org)



