Steps to Run the Project

1. Extract the Downloaded Zip file or copy the above source code.
2. Open the file using C++ Compiler such as Dev C++ etc.
3. Paste the source code and save the file in any of the computer locations.
4. Compile the project using compile option.
5. There is no error in the source code, if found then correct it.
6. Now run the project.
7. The executable .exe file will be generated in the location you choose.

- In the add_node function, every detail will store in a node for each passenger. These nodes will link each other. This is based on the linked list concept.
- Take the input for source place, destination place and it will give some choice of trains available. Based on that user has to give a choice. Then call the **cal() function**.
- In **cal() function**, the user has to give a choice for sleeper or a.c. class. If the user chooses a.c. class another three options will open where the user has to give another choice based on that the system will add 18% GST on the amount and make total amount.
- Call the **seat() function** where a seat matrix will be given to the user and the user has to choose a seat same with the number of passengers.
- At last, call the **bill() function** where the total bill amount with all the necessary details will be displayed.

What is Railway Reservation System?

As the name suggests Railway Reservation System is software that handles the entire booking data of the Railway. It is fully based on the concept of reserving train tickets for various destinations. Previously the task of handling the tickets at a time was very difficult, so there was a need for software that can handle all Railway Reservation System.

Therefore the Railway Reservation System was designed. After the release of this system, the stress and workload of the employee were absolutely finished. It was also time-wasting for the travelers to book a Ticket previously. But now it hardly takes 10 to 15 minutes to book a ticket wherever the passenger is.

Features of Railway Reservation System Project in C++

- We have created separate logins for the passengers as well as admin, in which the admin login is password protected.
- In this project, the admin can add, update, delete and create the trains.
- The passenger can book the train only if the train is added by the admin.
- Passengers are able to see the actual data of available trains so that they can choose which they want.
- The entire rights are given to the admin adding, modifying and deleting the train.
- This project use concept of file handling to store the booking data.

Approach:

- The first step is to implement a structure for taking the details of the passengers, like name, gender, and age.
- Five functions are defined void details(int), void add_node(char, char, int), int seat(int), int cal(int, int, int), void bill(int, int) to work smoothly.
- There are three elements in the structure like two strings one for taking passenger name and gender and one integer for taking passenger age. Also, a structure pointer will be used which helps to link the next node of another passenger. It is similar to the linked list.
- Character arrays are defined and some integer arrays are defined globally.
- Take the number of passengers as input and these details are sent to the **details() function**.
- Execute a for loop to take details of each passenger. The details inputted by the user will be sent to the add_node() function.