**IMPLEMENTING THE VIEWING OF TICKET OF A PARTICULAR TRAIN**

The next task in the project is to **view ticekts of a particular train**. As usual this task is also divided inot several However this task is itself divided into following subtasks:

1. Accept the train number with all the validations applied

2.While accepting the train no , allow the user to cancel the process in between

3.After the train no has been received , search it in the **allbookings.dat** file .

4. If train no is present , then display it's details of the tickets booked in that train otherwise print the message **NO DETAILS OF THE TRAIN NO <train no> FOUND** .

We have divided the above requirements into 3 functions:

1. **char\* accept\_train\_no()** : This function will accept **train number** from the user with all validations applied. If the user cancels the process in between it returns **0**.

If the input is incorrect (like non existing train no) then it will display the message **Error! Invalid train no** and again ask the user to input **train number**. If the input is correct it will return the **train number**

2.**int check\_train\_no(char\*):** This function will accept a train number as argument and check whether a train with that number exists or not. If the train exists it **return 1** otherwise it **returns 0**

3. **void view\_booking(char\*)**: This function will accept a **ticket number** as argument and display it's details by searching in the file **allbookings.dat.** If **ticket number** is not found , it will display the message **No details of the ticket found.**

So before proceeding further make the following declarations in the header file **"rlyres.h"**

**char\* accept\_train\_no();**

**int check\_train\_no(char\*);**

**void view\_ticket(int);**

**DESIGNING THE "accept\_train\_no()" FUNCTION IN THE FILE "rlyres.c"**

This function will accept **train number** from the user and will return it if it is correct . if the user cancels the process in between it **returns 0**

Following is it's prototype:

**char\* accept\_train\_no();**

This function will do the following:

1. Prompt the user to input **train number**.

2. Run a loop which does the following:

i) accept the input

ii)if the input received is 0 then move to bottom coordinate (1,25) of the screen using **gotoxy()**, **erase the previous message** , set the color to **LIGHTRED** using **textcolor()** ,print the message "**Cancelling Input. . .**" , reset the color to **YELLOW** and return **0**.

iii) Check whether the train number is valid or not by calling the function **check\_train\_no()** .If the function **check\_train\_no()** returns 0 , it means the train number given does not exists . So move to bottom coordinate (1,25) of the screen using **gotoxy()**, , set the color to **LIGHTRED** using **textcolor()** ,print the message " **Error! Invalid train number**" , move back to coordinate (20,1) , erase the entered age and reset the color to **YELLOW** .

iv) Repeat this until **check\_train\_no()** returns 1.

v) After the loop is over , return the **train number**

**DESIGNING THE "view\_booking()" FUNCTION IN THE FILE "rlyres.c"**

This function will search the file **allbookings.dat** and display details of all the tickets of the **train number** passed as argument to it. If the train number is not found , it will display the message **No details of the train <train number> found.**

Following is it's prototype:

**void view\_booking(char\* train\_no)**

This function will do the following:

1. Open the file **allbookings.dat**

2.If the file is not present , it will display the message **No bookings done yet** and will return.

3. Otherwise it will **read a record from the file ,** match the train number with the argument passed and if the match is found it will display the details

4. Finally if all the records have been read and **train number** is not found then it will display the message **No details of the train <train number> found**, close the file and return.

**UPDATING THE "main()" FUNCTION**

Now finally to get this module working we will have to change the **main()** function’s

**case 6:** in **switch** statement.

Here are the steps to be done in the function **main()**:

1. Call the on **accept\_train\_no()** function
2. Check whether the value returned by this function is **NULL** or not
3. If it is not NULL , then call the function **view\_booking()** passing it the train number as argument

Here are the screenshots for this module:

