# A PROJECT ON

# **BUS RESERVATION SYSTEM**



**SUBMITTED BY:** 

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ANAND INTERNATIONAL COLLEGE	OF ENGINEERING
C - PROJECT	
CERTIFICATE	
THIS IS TO CERTIFY THAT RINKI GOYAL of CS Branc COLLEGE OF ENGG. HAS SUCCESSFULLY COMPLETE ENQUIRY SYSTEM" UNDER Mr. SANJOG ARORA'S GUI	D THE PROJECT " <b>STUDENT</b>
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# **ACKNOWLEDGEMENT**

THIS PROJECT COULD NOT HAVE BEEN SUCCESSFULLY COMPLETED WITHOUT THE UNENDING AND CONTINIOUS SUPPORT AND HELP FROM ALL MY TEACHERS, ESPECIALLY **Mr. Sanjog Arora**. I WOULD ALSO LIKE TO THANK MY PARENTS FOR THEIR LOVE AND ENCOURAGEMENT THROUGHOUT THE MAKING OF THIS PROJECT.

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### Week - 1

# Tasks to be performed this week:

To study the following topics:

- File Handling
- Control Statements
- Functions
- Structures
- Pointers

### Tasks performed this week:

#### • FILE HANDLING:

Through file handling, one can perform operations like create, modify, delete etc on system files.

File handling functions

Following functions that are popularly used in file handling:

a. fopen()

FILE \*fopen(const char \*path, const char \*mode);

The fopen() function is used to open a file and associates an I/O stream with it. This function takes two arguments. The first argument is a pointer to a string containing name of the file to be opened while the second argument is the mode in which the file is to be opened. The mode can be:

- 'r': Open text file for reading. The stream is positioned at the beginning of the file.
- 'r+': Open for reading and writing. The stream is positioned at the beginning of the file.
- 'w': Truncate file to zero length or create text file for writing. The stream is positioned at the beginning of the file.
- 'w+': Open for reading and writing. The file is created if it does not exist, otherwise it is truncated. The stream is positioned at the beginning of the file.

- 'a': Open for appending (writing at end of file). The file is created if it does not exist. The stream is positioned at the end of the file.
- 'a+': Open for reading and appending (writing at end of file). The file is created if it does not exist. The initial file position for reading is at the beginning of the file, but output is always appended to the end of the file.

The fopen() function returns a FILE stream pointer on success while it returns NULL in case of a failure.

#### b. fread() and fwrite()

```
size_t fread(void *ptr, size_t size, size_t nmemb, FILE *stream);
size_t fwrite(const void *ptr, size_t size, size_t nmemb, FILE *stream);
```

The functions fread/fwrite are used for reading/writing data from/to the file opened by fopen function. These functions accept three arguments. The first argument is a pointer to buffer used for reading/writing the data. The data read/written is in the form of 'nmemb' elements each 'size' bytes long.

In case of success, fread/fwrite return the number of bytes actually read/written from/to the stream opened by fopen function. In case of failure, a lesser number of byes (then requested to read/write) is returned.

#### c. fseek()

```
int fseek(FILE *stream, long offset, int whence);
```

The fseek() function is used to set the file position indicator for the stream to a new position. This function accepts three arguments. The first argument is the FILE stream pointer returned by the fopen() function. The second argument 'offset' tells the amount of bytes to seek. The third argument 'whence' tells from where the seek of 'offset' number of bytes is to be done. The available values for

whence are SEEK\_SET, SEEK\_CUR, or SEEK\_END. These three values (in order) depict the start of the file, the current position and the end of the file.

Upon success, this function returns 0, otherwise it returns -1.

#### d. fclose()

```
int fclose(FILE *fp);
```

The fclose() function first flushes the stream opened by fopen() and then closes the underlying descriptor. Upon successful completion this function returns 0 else end of file (eof) is returned. In case of failure, if the stream is accessed further then the behavior remains undefined.

#### • CONTROL STATEMENTS:

#### if statement

This is the most simple form of the branching statements.

It takes an expression in parenthesis and an statement or block of statements. if the expression is true then the statement or block of statements gets executed otherwise these statements are skipped.

**NOTE:** Expression will be assumed to be true if its evaulated values is non-zero.

if statements take the following form:

```
if (expression)
   statement;

or

if (expression)
   {
    Block of statements;
   }

or

if (expression)
   {
   Block of statements;
   }
```

~ ~

```
else
{
    Block of statements;
}
or
if (expression)
{
    Block of statements;
}
else if(expression)
{
    Block of statements;
}
else
{
    Block of statements;
}
else
{
    Block of statements;
}
```

#### while loop

The most basic loop in C is the while loop. A while statement is like a repeating if statement. Like an If statement, if the test condition is true: the statements get executed. The difference is that after the statements have been executed, the test condition is checked again. If it is still true the statements get executed again. This cycle repeats until the test condition evaluates to false.

Basic syntax of while loop is as follows:

```
while ( expression )
{
    Single statement
    or
    Block of statements;
}
```

### for loop

**for** loop is similar to while, it's just written differently. for statements are often used to process lists such a range of numbers:

Basic syntax of for loop is as follows:

```
for( expression1; expression2; expression3)
{
   Single statement
   or
   Block of statements;
}
```

In the above syntax:

expression1 - Initialisese variables.

- expression2 Condtional expression, as long as this condition is true, loop will keep executing.
- expression3 expression3 is the modifier which may be simple increment of a variable.

#### switch case:

- Switch case statements are used to execute only specific case statements based on the switch expression.
- Below is the syntax for switch case statement.

```
switch (expression)
{
  case label1: statements;
  break;
  case label2: statements;
  break;
  default: statements;
  break;
}
```

### • FUNCTIONS:

#### Defining a Function

The general form of a function definition in C programming language is as follows –

```
return_type function_name( parameter list ) {
  body of the function
}
```

A function definition in C programming consists of a *function header* and a *function body*. Here are all the parts of a function –

- **Return Type** A function may return a value. The **return\_type** is the data type of the value the function returns. Some functions perform the desired operations without returning a value. In this case, the return\_type is the keyword **void**.
- **Function Name** This is the actual name of the function. The function name and the parameter list together constitute the function signature.

- **Parameters** A parameter is like a placeholder. When a function is invoked, you pass a value to the parameter. This value is referred to as actual parameter or argument. The parameter list refers to the type, order, and number of the parameters of a function. Parameters are optional; that is, a function may contain no parameters.
- **Function Body** The function body contains a collection of statements that define what the function does.

#### **Function Declarations**

A function **declaration** tells the compiler about a function name and how to call the function. The actual body of the function can be defined separately.

A function declaration has the following parts –

```
return_type function_name( parameter list );
```

#### Calling a Function

While creating a C function, you give a definition of what the function has to do. To use a function, you will have to call that function to perform the defined task.

When a program calls a function, the program control is transferred to the called function. A called function performs a defined task and when its return statement is executed or when its functionending closing brace is reached, it returns the program control back to the main program.

To call a function, you simply need to pass the required parameters along with the function name, and if the function returns a value, then you can store the returned value.

### • POINTERS:

A **pointer** is a variable whose value is the address of another variable, i.e., direct address of the memory location. Like any variable or constant, you must declare a pointer before using it to store any variable address. The general form of a pointer variable declaration is –

```
type *var-name;
```

#### How to Use Pointers?

There are a few important operations, which we will do with the help of pointers very frequently. (a) We define a pointer variable, (b) assign the address of a variable to a pointer and (c) finally access the value at the address available in the pointer variable. This is done by using unary operator \* that returns the value of the variable located at the address specified by its operand. The following example makes use of these operations –

```
#include <stdio.h>
int main () {
   int var = 20;    /* actual variable declaration */
   int *ip;    /* pointer variable declaration */
   ip = &var;    /* store address of var in pointer variable*/
   printf("Address of var variable: %x\n", &var    );

   /* address stored in pointer variable */
   printf("Address stored in ip variable: %x\n", ip );

   /* access the value using the pointer */
   printf("Value of *ip variable: %d\n", *ip );

   return 0;
```

### • STRUCTURES:

#### Defining a Structure

To define a structure, you must use the **struct** statement. The struct statement defines a new data type, with more than one member. The format of the struct statement is as follows —

```
struct [structure tag] {
   member definition;
   member definition;
   ...
   member definition;
} [one or more structure variables];
```

The **structure tag** is optional and each member definition is a normal variable definition, such as int i; or float f; or any other valid variable definition. At the end of the structure's definition, before the final semicolon, you can specify one or more structure variables but it is optional.

#### Accessing Structure Members:

To access any member of a structure, we use the **member access operator** (.). The member access operator is coded as a period between the structure variable name and the structure member that we wish to access. You would use the keyword **struct** to define variables of structure type.

### **STATUS:**

We have studied the topics related to the project.

### Week - 2

# Tasks to be performed this week:

- To create login information
- To create mainmenu using switch case

### Tasks performed this week:

#### SECURITY:

security() function is created so that only the admin can open the system by entering login id and password.

```
152
      void security()
153 🖵 {
           char username[10],password[10],ch;
154
155
           int i;
156
           system("cls");
157
           printf("\nEnter Username:\n");
158
           gets(username);
           printf("\nEnter Password:\n");
159
160
           for(i=0;i<6;i++)
161 -
162
               ch=getch();
               password[i]=ch;
163
               ch='*';
164
               printf("%c",ch);
165
166
167
           password[i]='\0';
168
           if(strcmp(username, "Rinki") == 0 && strcmp(password, "redbus") == 0)
169 -
170
               printf("\nCongratulations..!!\nPress enter to continue..\n");
171
               getch();
               system("cls");
172
173
               mainmenu();
174
           else
175
176 🖵
177
               printf("\nWrong Username or Password..!\nTo try again press enter.\n");
178
               getch();
               system("cls");
179
180
               security();
181
           getch();
182
183
184
```

#### MAINMENU

mainmenu() function is created to display the options available to the admin regarding the bus reservation changes.

```
528
       void mainmenu()
529 🖵 {
530
           system("color 3f");
531
           int j;
           printf("\n\n\t\t\tREDBUS.IN\n");
532
533
           printf("\t\tMY BUS....My seat\n");
           printf("1.Add new bus route\n");
534
           printf("2.See all available bus route\n");
535
           printf("3.Load buses to the route (Jpr to Delhi)\n");
536
           printf("4.See buses to the route (Jpr to Delhi)\n");
537
           printf("5.Delete Bus to the route.\n");
538
           printf("6.Load seats to the bus\n");
539
           printf("7.Book a ticket\n");
540
541
           printf("8.Exit\n");
           printf("Enter your choice\n");
542
           scanf("%d",&j);
543
           system("cls");
544
545
           system("color 1F");
546
           switch(j)
547 -
           {
548
               case 1:
549
                   addNewBusRoute();
550
                   break;
551
               case 2:
                   displayAllBusRoute();
552
                   break;
553
554
               case 3:
                   loadBuses();
555
556
                   break;
557
               case 4:
                   displayBuses();
558
559
                   break;
560
               case 5:
                   deleteDetails();
561
562
                   break;
563
               case 6:
                   loadSeats();
564
565
                   break;
566
               case 7:
                   bookTicket();
567
568
                   break;
569
               case 8:
570
                   exit(0);
571
                   break;
               default:
572
                   system("cls");
573
                   mainmenu();
574
575
576
           }
577
```

# **STATUS:**

We have designed the security window and main menu.

Fig. SECURITY WINDOW:

```
Enter Username:
Rinki

Enter Password:
******
Congratulations..!!
Press enter to continue..
```

Fig. MAINMENU:

```
REDBUS.IN
MY BUS....My seat

1.Add new bus route

2.See all available bus route

3.Load buses to the route (Jpr to Delhi)

4.See buses to the route.

6.Load seats to the bus

7.Book a ticket

8.Exit
Enter your choice
```

### Week - 3

### Tasks to be performed this week:

- To insert and display bus routes.
- To insert, delete and display buses to the route Jaipur to Delhi.

### Tasks performed this week:

• <u>INSERT BUS ROUTES:</u> addNewBusRoute() function is used to add new routes to the system.

```
185
      void addNewBusRoute()
186 🖃
187
      int i;
188
      FILE *fp;
189
      fp=fopen("bus.txt", "a");
190
      struct checkpoint cp;
191
      struct checkpoint *pptr;
192
      pptr=&cp;
      printf("Enter Bus route number\n");
193
194
      scanf("%d",&pptr->no);
195
      printf("Enter source\n");
196
      scanf("%s",pptr->startpoint);
197
      printf("Enter destination\n");
      scanf("%s",pptr->endpoint);
198
199
      fwrite(pptr,sizeof(*pptr),1,fp);
200
      fclose(fp);
201
      printf("Congratulations!!\nYour bus route is saved\n");
202
      printf("\nDo you want to add more route?\n1.Yes\t\t\t2.No\n");
      scanf("%d",&i);
203
204
      switch(i)
205 🗏 {
206
          case 1:
               system("cls");
207
208
               addNewBusRoute();
209
              break;
           case 2:
210
               system("cls");
211
               mainmenu();
212
213
              break;
           default:
214
215
               system("cls");
               printf("Enter appropriate choice\n");
216
217
               addNewBusRoute();
218
219
220
```

#### • DISPLAY BUS ROUTES:

displayAllBusRoute() function is used to display the available Bus routes.

```
void displayAllBusRoute()
221
222 🖵 {
223
           int i;
224
           int ch;
           FILE *fp1;
225
226
          struct checkpoint cp;
           struct checkpoint *pptr;
227
228
           pptr=&cp;
229
           fp1=fopen("bus.txt","r");
230
               printf("Available Bus Routes are:\n");
231
               printf("Route No.
232
                                  Starting Point
                                                         Destination");
              printf("\n--
233
234
              while(fread(pptr,sizeof(*pptr),1,fp1))
235
                                                                %s\n",pptr->no,pptr->startpoint,pptr->endpoint);
                   printf("%d
236
237
               printf("\n1.Get directed to main menu.\n2.Book a ticket.\n3.Exit\n");
238
              printf("Enter your choice\n");
239
               scanf("%d",&ch);
240
241
               switch(ch)
242 -
243
                   case 1:
                       system("cls");
244
                       mainmenu();
245
246
                       break;
247
                   case 2:
                       system("cls");
248
                       bookTicket();
249
250
                       break;
251
                   case 3:
252
                       exit(0);
253
                       break;
254
                   default:
                       printf("\nEnter appropriate choice\n");
255
256
                       displayAllBusRoute();
257
258
259
           fclose(fp1);
260
```

#### • INSERT BUSES TO THE ROUTE:

loadBuses() function is used to add buses to the route Jaipur to Delhi.

```
void loadBuses()
261
262 🖵 {
263
           int i;
264
           FILE *fp;
           fp = fopen("busdetail.txt", "a");
265
           struct bus bs;
266
267
           struct bus *ptr;
           ptr=&bs;
268
269
           printf("Enter bus number\n");
           scanf("%d",&ptr->busno);
270
271
           printf("Enter bus name\n");
272
           scanf("%s",ptr->busname);
           printf("Enter bus arrival time(hh:mm)\n");
273
274
           scanf("%s",ptr->arrtime);
           printf("Enter bus departure time(hh:mm)\n");
275
           scanf("%s",ptr->deptime);
276
           printf("Enter time duration\n");
277
           scanf("%s",ptr->duration);
278
279
           printf("Enter bus status(AC / Non-AC)\n");
280
           scanf("%s",ptr->status);
281
           printf("Enter bus fare\n");
282
           scanf("%d",&ptr->fare);
283
           fwrite(ptr, sizeof(*ptr), 1, fp);
284
           fclose(fp);
285
           printf("Congratulations!!\nYour bus details are saved\n");
           printf("\nDo\ you\ want\ to\ add\ more\ buses\ to\ the\ route?\n1.Yes\t\t2.No\n");
286
           scanf("%d",&i);
287
288
           switch(i)
289 -
290
               case 1:
                   system("cls");
291
                   loadBuses();
292
293
                   break;
294
               case 2:
295
                   system("cls");
296
                   mainmenu();
297
                   break;
               default:
298
                   system("cls");
299
300
                   printf("\nEnter appropriate choice");
                   loadBuses();
301
302
303
```

#### • DISPLAY BUSES TO THE ROUTE:

displayBuses() function is used to display the buses available to the route Jaipur to Delhi.

```
304 void displayBuses()
305 🗏 {
306
         int i;
307
         int ch;
308
         FILE *fp1;
309
         struct bus bs;
310
         struct bus *ptr;
311
         ptr=&bs;
312
         fp1=fopen("busdetail.txt","r");
313
314
             printf("Available Buses to the route are:\n\n");
315
             printf("Bus No. Bus Name
                                           Arrival Time Departure Time Duration Fare Status------
             while(fread(ptr,sizeof(*ptr),1,fp1))
316
317 🗀
             printf(" %d %s %s
                                               %s
                                                                      %d
318
                                                                              %s\n",ptr->busno,ptr->busname,ptr->arrtime,ptr->deptime,ptr->duration,ptr->fare,ptr->status);
319
             printf("\n1.Get directed to main menu.\n2.Book a ticket.\n3.Exit\n");
320
321
             printf("Enter your choice\n");
322
             scanf("%d",&ch);
323
             switch(ch)
324 🖃
325
                 case 1:
326
                    system("cls");
                    mainmenu();
327
328
                    break;
329
                 case 2:
330
                     system("cls");
331
                     bookTicket();
332
                    break;
333
                 case 3:
334
                    exit(0);
335
                 default:
336
                    printf("\nEnter appropriate choice\n");
337
                    displayBuses();
338
339 L }
```

### • DELETE BUSES TO THE ROUTE:

deleteDetails() function is used to delete a bus to the given route.

```
336
      void deleteDetails()
337 🖵 {
          FILE *fp;
338
          FILE *fpt;
339
340
          struct bus bs;
341
          int r,a;
          printf("Enter the Bus no you want to delete :");
342
          scanf("%d",&r);
343
344
              fp=fopen("busdetail.txt","rb+");
345
               fpt=fopen("TempFile.txt","wb+");
346
347
              while(fread(&bs, sizeof(bus), 1, fp))
348
349
                   a=bs.busno;
350
                   if(a!=r)
351
                   fwrite(&bs,sizeof(bus),1,fpt);
352
353
               fclose(fp);
354
              fclose(fpt);
355
              fp=fopen("busdetail.txt","wb+");
356
              fpt=fopen("TempFile.txt","rb+");
357
               while(fread(&bs,sizeof(bus),1,fpt))
358
               fwrite(&bs,sizeof(bus),1,fp);
              printf("\nRECORD DELETE\n");
359
360
361
          fclose(fp);
362
          fclose(fpt);
363 L }
```

### **STATUS:**

We have designed the routes and bus details windows.

Fig. Insert Bus Route Window

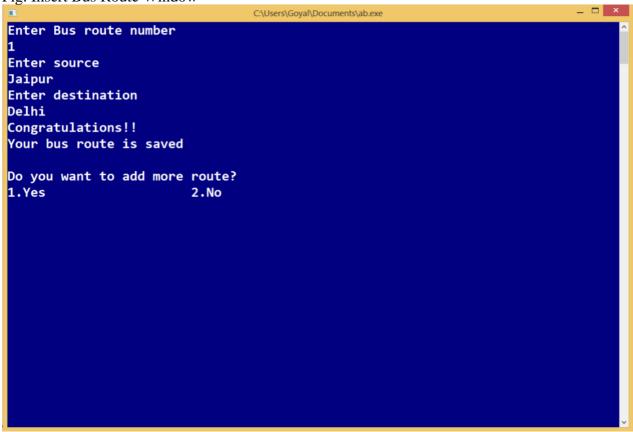


Fig. Display Available Bus Route

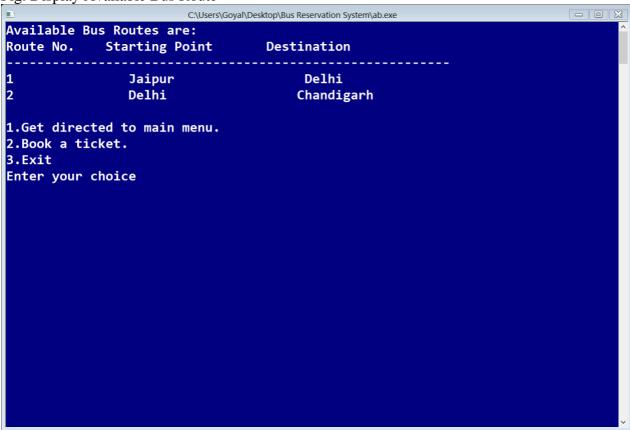


Fig. Insert Bus Detail Window

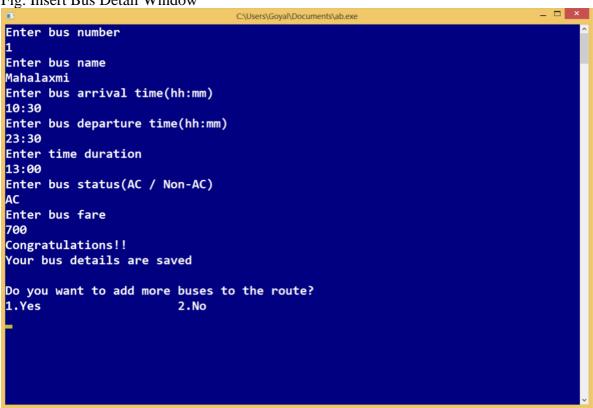
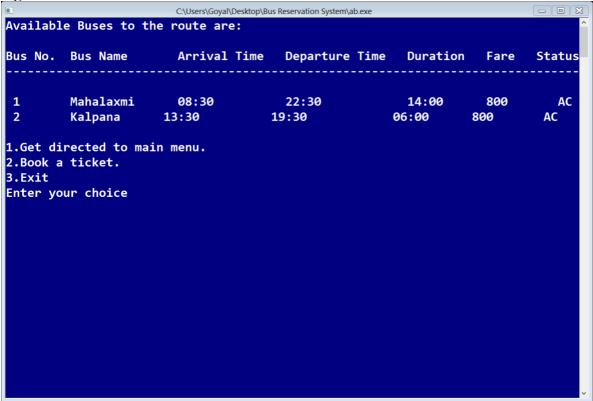


Fig. Available Buses Window



### Week - 4

# Tasks to be performed this week:

- To load seats to a bus.
- To book tickets in a bus.

### Tasks performed this week:

LOAD SEATS TO A BUS:

To load seats to a bus and initially make the status unbooked, loadBuses() function is used.

```
void loadSeats()
423
424 🖵 {
         system("cls");
425
426
         int i,f;
         int ch;
427
428
         FILE *fp1;
         struct bus bs;
429
430
         struct bus *ptr;
431
         ptr=&bs;
432
         fp1=fopen("busdetail.txt","rb+");
433
         printf("Available Buses to the route are:\n");
434
                                    Arrival Time Departure Time Duration Fare Status\n-----
435
         printf("Bus No. Bus Name
436
         while(fread(ptr,sizeof(*ptr),1,fp1))
437
438
                                                                            %s\n",ptr->busno,ptr->busname,ptr->arrtime,ptr->deptime,ptr->duration,ptr->fare,ptr->status);
439
440
         printf("Which bus would you like to load seats to(Enter Bus no.)\n");
441
         scanf("%d",&f);
442
443
         switch(f)
444
445
446
                loadMahalaxmiSeats();
447
                break;
448
             case 3:
449
                 //saraswati();
450
                 break:
451
             default:
452
                printf("Select correct option\n");
453
                 loadSeats();
454
```

#### • BOOK A TICKET:

The following functions are used to book a ticket.

```
void bookTicket()
458 🖵 {
                              char source[10],des[10];
printf("\t\t Book a Ticket \t");
459
460
461
462
                              int ch;
FILE *fp1;
463
                               struct checkpoint cp;
464
465
                                struct checkpoint *pptr;
466
                               pptr=&cp;
fp1=fopen("bus.txt","r");
467
468
                                         printf("Available Bus Routes are:\n");
while(fread(pptr,sizeof(*pptr),1,fp1))
469
470
471 中
                                                   printf("%d %s %s\n",pptr->nc,pptr->startpoint,pptr->endpoint);
473
474
                              printf("\nEnter source\n");
scanf("%s",source);
printf("\nEnter destination\n");
scanf("%s",des);
475
476
                                if((strcmp(source, "jaipur")==0||strcmp(source, "jpr")==0||strcmp(source, "Jaipur")==0||strcmp(des, "delhi")==0||strcmp(des, "delhi")==0||strcmp(d
478
479
                                         system("cls");
int i,f;
489
481
482
                                         int ch;
FILE *fp1;
483
                                         struct bus bs;
struct bus *ptr;
484
 485
                                         ptr=&bs;
fp1=fopen("busdetail.txt","rb+");
486
487
488
                                         489
490
491
492
                                                   printf(" %d
                                                                                                                                                                                        %s:
                                                                                                                                                                                                                                      %s\n".ptr->busnc.ptr->busname.ptr->arrtime.ptr->deptime.ptr->duration.ptr->fare.ptr->status);
494
495
496
497
                                         printf("Which bus would you like to select(Enter Bus no.)\n"); scanf("%d",8f);
498
499
                                         switch(f)
500 P
                                                   case 11
502
                                                              mahalaxmi();
503
                                                              break;
584
585
                                                                   /saraswati();
506
507
                                                   default
 508
                                                              printf("Select correct option\n");
                                                              bookTicket();
509
510
511
513
514 -
515
516 -
                                else
                                         system("cls");
printf("\n No available buses to this route.");
517
519
                                          mainmenu();
520
521 |
```

```
96
        void mahalaxmi()
 97
 98
            int i;
 99
            int m;
            char g;
100
            FILE *mbc:
101
102
            struct mahaseat mseat;
103
            mbc=fopen("Mahalaxmi.txt", "rb+");
104
            while(fread(&mseat,sizeof(struct mahaseat),1,mbc)==1)
105
                     printf("\t%d\t%c\n",mseat.seatno,mseat.status1);
186
187
188
            fclose(mbc);
109
            printf("\nHow many tickets you want to book?\n");
110
            scanf("%d",&m);
111
            printf("\nPlease enter seat number.\n");
112
            int *p = (int *)malloc(sizeof(int)*(m));
113
            for(i=0;i<n;i++)
114
115
                scanf("%d",&p[i]);
116
            printf("Your seat numbers are:\n");
117
118
            for(i=0;i<m;i++)
119
120
                printf("%d\n",p[i]);
121
122
            getch();
            checkingMahalaxmi(m,p);
123
124
            FILE *mbcf;
125
            mbcf = fopen("Mahalaxmi.txt","rb+");
126
            struct mahaseat upstatus:
127
            while(fread(&upstatus,sizeof(struct mahaseat),1,mbcf)==1)
128
129
                for(i=0;i<n;i++)
130
131
                     if(upstatus.seatno==p[i])
132
                         fseek(mbcf,-sizeof(upstatus),SEEK_CUR);
133
134
                         upstatus.status1='B';
135
                         fwrite(&upstatus, sizeof(upstatus), 1, mbcf);
136
                         fseek(mbcf,0,SEEK_CUR);
137
                         printf("\t%d %c\n",upstatus.seatno,upstatus.status1);
138
                         break;
139
                7
140
141
142
            printf("CONGRATS!! You have booked your tickets..\n");
143
            fclose(mbcf);
            getch();
system("cls");
144
145
146
            mainmenu();
147
148
```

### **STATUS:**

We have designed the load seats and book ticket windows.

Fig. Load Seats

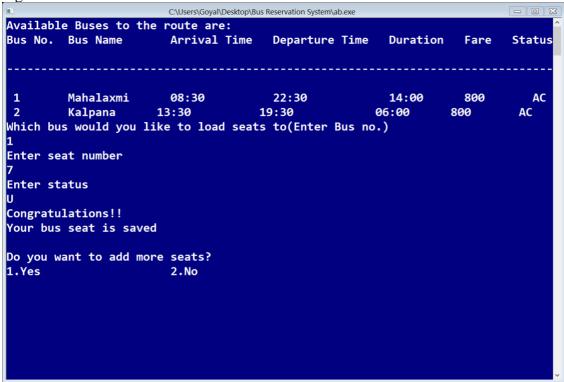


Fig. Book Ticket Window

```
C:\Users\Goyal\Desktop\Bus Reservation System\ab.exe
Bus No. Bus Name
                        Arrival Time Departure Time
                                                         Duration
                                                                    Fare
                      08:30
         Mahalaxmi
                                      22:30
                                                         14:00
                                                                    800
                                                                              AC
2
         Kalpana 
                      13:30
                                                       06:00
                                                                  800
                                                                            AC
Which bus would you like to select(Enter Bus no.)
        1
        2
                U
        5
How many tickets you want to book?
Please enter seat number.
Your seat numbers are:
        4 B
CONGRATS!! You have booked your tickets..
```

