‘C’ Programming Project Report

ON

“Online Bus Ticket Booking”

Project Title : ONLINE BUS TICKET BOOKING

Course Title : Structured Programming Lab

Course Code : CSE 104

Section : 01

ID : 192 014 038

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1. Introduction:

"C" language is a programming language which is also known as "Structured Programming". It was initially developed by Dennis Ritchie in the year 1972 and till now it is one of the most used programming languages. Even many later languages have borrowed syntax or features from C language directly or indirectly. However, there are many important basic things to learn in C language which are given below –

- Syntax,
- Header file,
- Function,
    - Built in function,
    - User defined function.
- Keyword,
- Data type,
    - Built in data type,
    - User defined data type.
- Variable,
- Return type,
- Condition,
- Loop,
    - For,
    - While,
    - Do while.
- String,
- Array,
    - 1D array,
    - 2D or multi-dimensional array.
- Pointer,

- Recursion,
- Structure,
- Union,
- File etc.

There are many advantages of C language –

- ✓ Building block for many other programming languages,
- ✓ Powerful and efficient language,
- ✓ Portable language,
- ✓ Built-in functions,
- ✓ Quality to extend itself,
- ✓ Structured programming language,
- ✓ Middle-level language,
- ✓ Implementation of algorithms and data structures,
- ✓ Procedural programming language,
- ✓ Dynamic memory allocation,
- ✓ System programming etc.

The most important point is that initially it was developed as system programming language to write an operating system though we can use C language to create any kind of app, software, 2D games etc. My project is on “Online Bus Ticket Booking” by which people can book bus ticket through online. The reason behind this project idea is current system of booking ticket. As we have to go to the ticket counter of our own and sometimes we have to stand for hours and hours to collect or buy ticket so I want to solve the problem initially. Let me explain why current system is responsible for making this project.

2. Current System:

At present we have to book ticket by going to the ticket counter which is very time expensive and often we stand in line for couple of hours to just buy a ticket from the counter. So this is very disgusting and a matter of great shame in this modern or digital world. What if we can buy tickets without going to the counter by using computer? That's why I have proposed a system by which passenger can book ticket by sitting at home very easily.

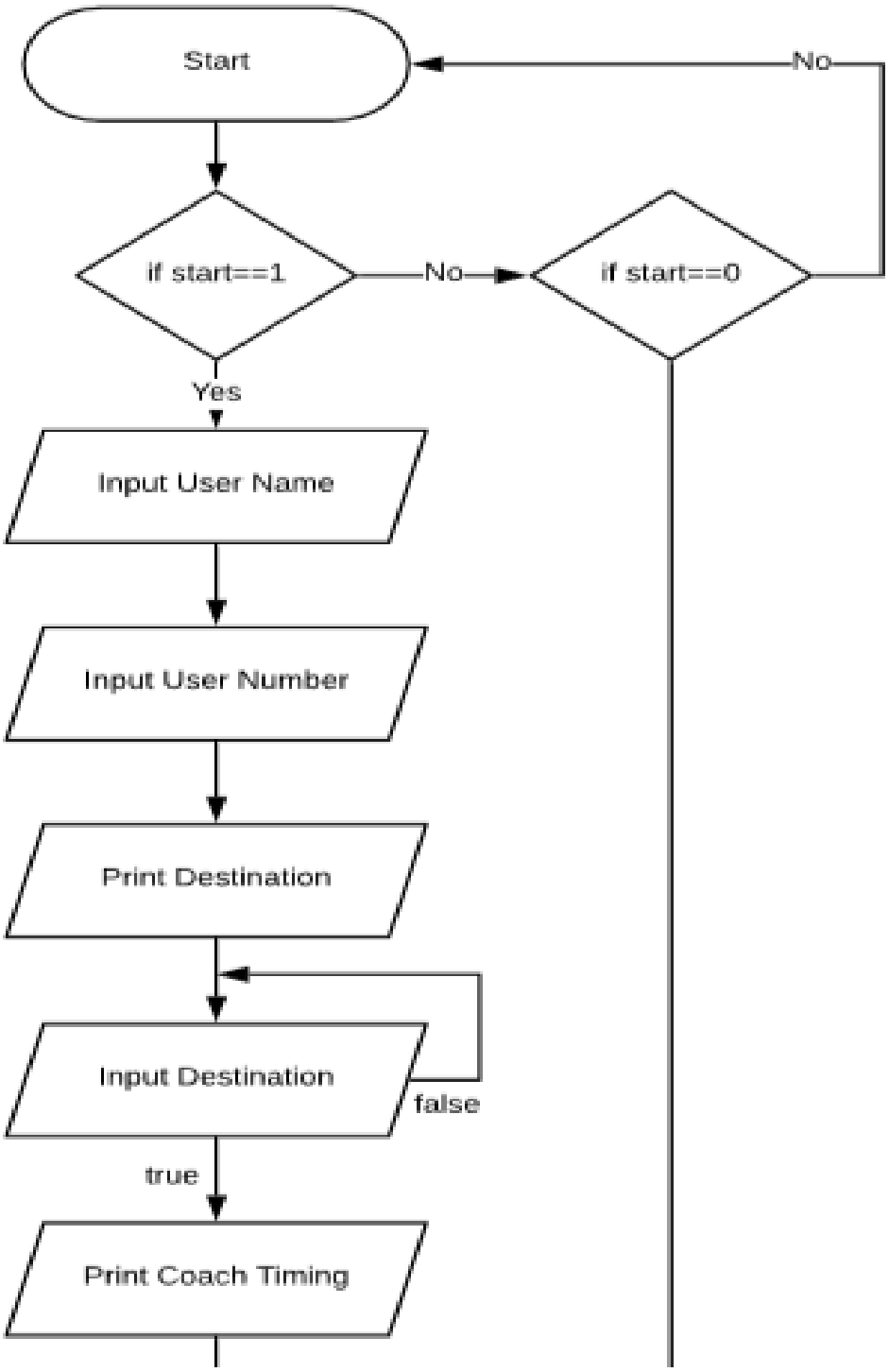
3. Proposed System & Objectives:

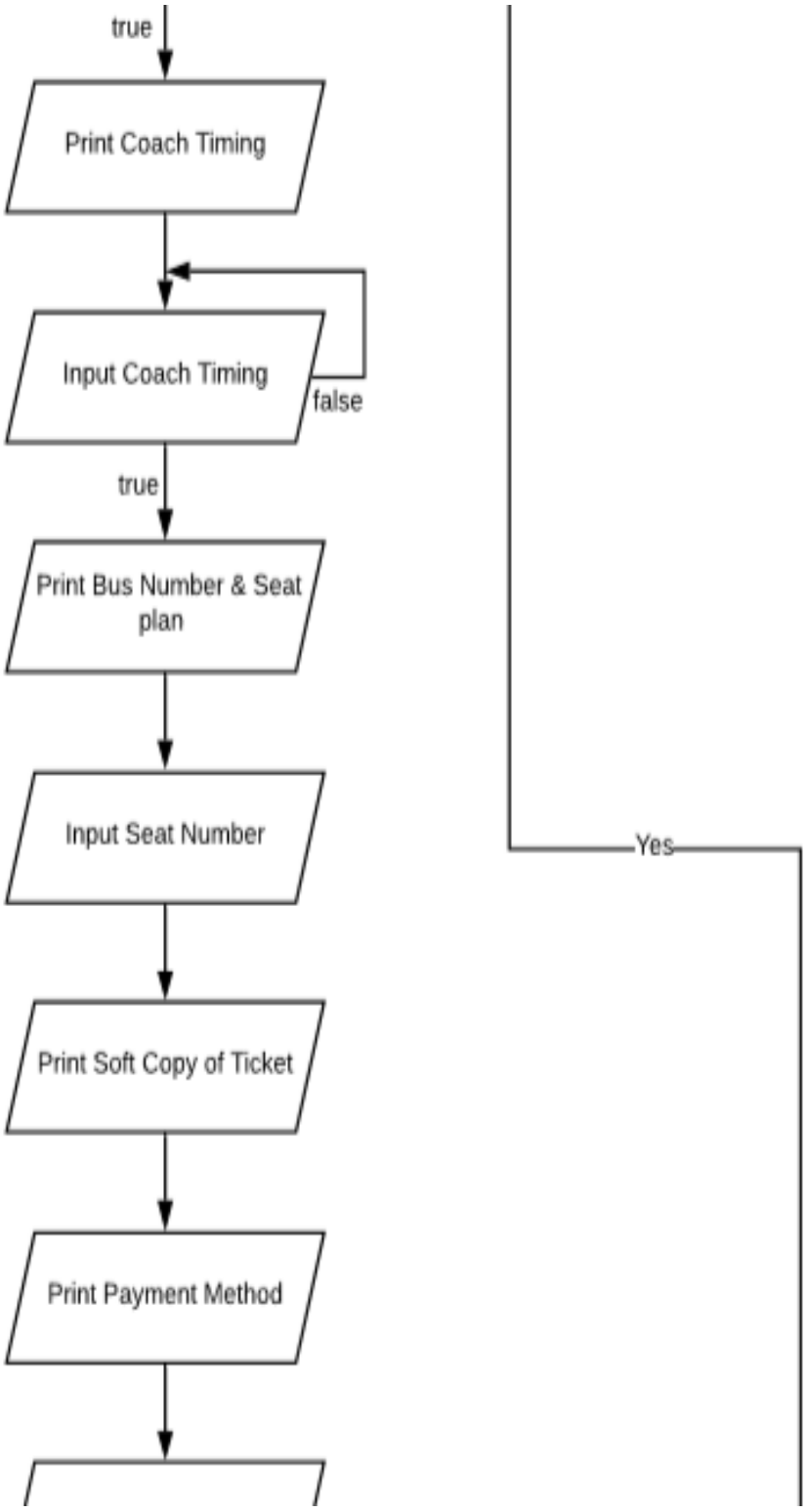
As we all know that "Necessity is the mother of invention", so I have made this project by which anybody can easily book tickets without going to the counter. In this modern world everything becomes smart by computer software so why not booking tickets? People can easily access the software entering his or her surname and phone number. As I have made this project very easily and simply, almost everybody can use this by reading the instructions given. There are some objectives of my project –

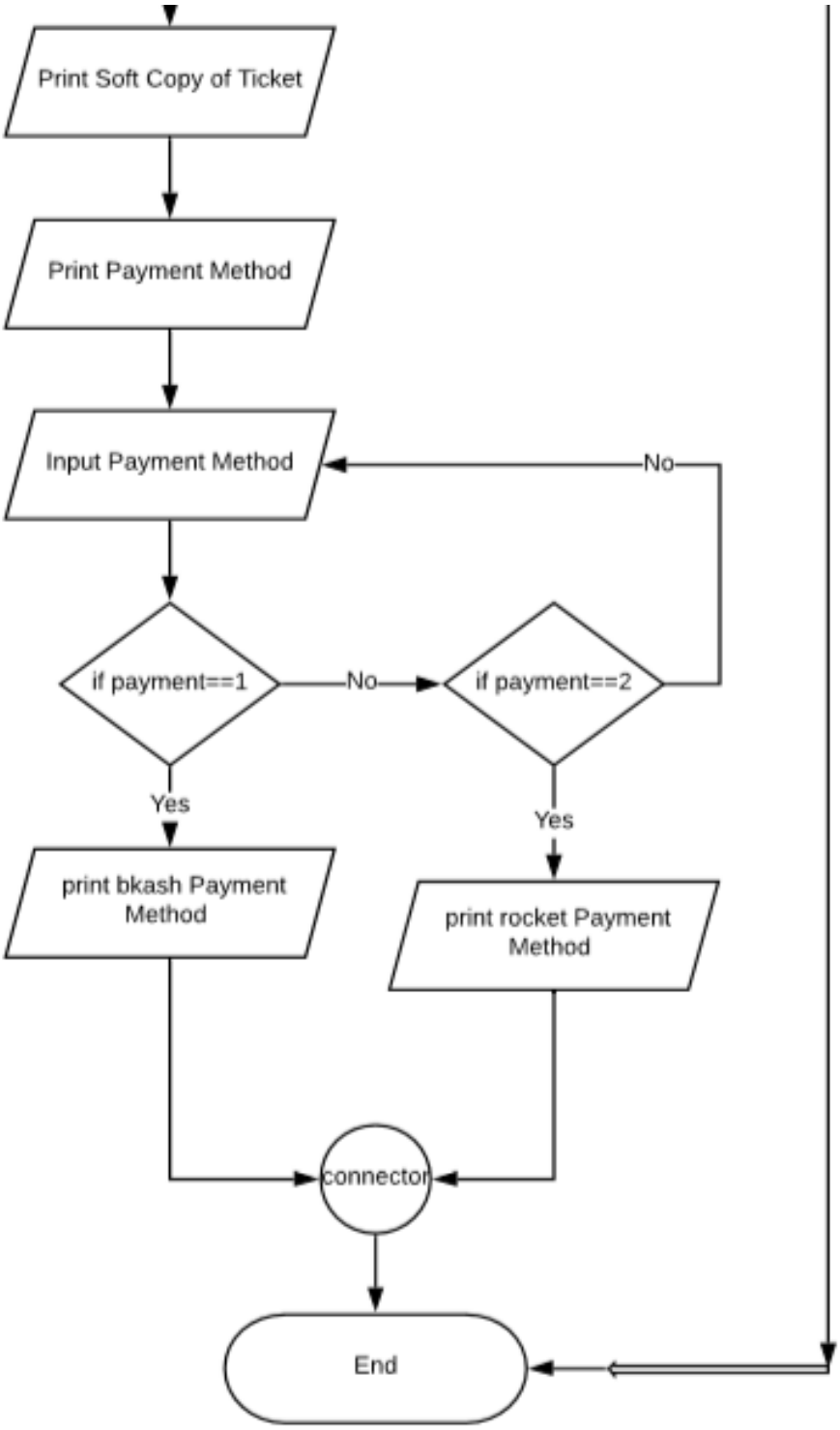
- This is very easy and simple to use,
- It will save our valuable time,
- We don't need to wait for the serial as well,
- Easy payment method,
- The smartest way to book tickets till now.

4. Flowchart of the Project:

I have built this project step by step so that user can easily cope up with the newly introduced system and can easily complete the task of booking tickets. So before going to the main project, I would like to show you the flowchart of my project –


Start
No
if start==1
No
if start==0
Yes
Input User Name
Input User Number
Print Destination
Input Destination
false
true
Print Coach Timing


true
Print Coach Timing
Input Coach Timing
false
true
Print Bus Number & Seat plan
Input Seat Number
Print Soft Copy of Ticket
Print Payment Method
Yes


Print Soft Copy of Ticket
Print Payment Method
Input Payment Method
No
if payment==1
No
if payment==2
Yes
Yes
print bkash Payment Method
print rocket Payment Method
connector
End

5. Program Specification:

5.1) Input Specification:

Variables	Specifications	Data Types	Data Sizes
start	to start or exit the program	integer	4 bytes
user_name	to scan username from user	string	30 bytes
phone_number	to scan phone no. from user	string	30 bytes
destination	to scan destination from user	integer	4 bytes
seat_row	to set row number of seat	integer	4 bytes
seat_column	to set column number of seat	integer	4 bytes
row	to set row of coach timing	integer	4 bytes
column	to set column of coach timing	integer	4 bytes
seat_number	To scan seat number from user	string	10 bytes
coach_for_Khulna	to scan coach for Khulna from user	integer	4 bytes
coach_for_Rajshahi	to scan coach for Rajshahi from user	integer	4 bytes
coach_for_Comilla	to scan coach for Comilla from user	integer	4 bytes
coach_for_Chittagong	to scan coach for Chittagong from user	integer	4 bytes
payment	to scan payment method from user	integer	4 bytes

5.2) Function Specification:

Function Name	Specifications	Function Type
Main()	to compile the program	Integer
introduction()	to print destinations	Void
seatplan()	to print seat plan	Void
Coach()	to print coach timing	Void
Press()	to print pressing key	Void
details_of_booking_ticket_khulna()	to scan and print all info. & bus no. for Dhaka to Khulna route	Void
details_of_booking_ticket_khulna_back()	to scan and print all info. & bus no. for Khulna to Dhaka route	Void

Function Name	Specifications	Function Type
details_of_booking_ticket_Rajshahi()	to scan and print all info. & bus no. for Dhaka to Rajshahi route	Void
details_of_booking_ticket_Rajshahi_back()	to scan and print all info. & bus no. for Rajshahi to Dhaka route	Void
details_of_booking_ticket_Comilla()	to scan and print all info. & bus no. for Dhaka to Comilla route	Void
details_of_booking_ticket_Comilla_back()	to scan and print all info. & bus no. for Comilla to Dhaka route	Void
details_of_booking_ticket_Chittagong()	to scan and print all info. & bus no. for Dhaka to Chittagong route	Void
details_of_booking_ticket_Chittagong_back()	to scan and print all info. & bus no. for Chittagong to Dhaka route	Void

6. Processing:

Let me explain how my project will work step by step –

1. User has to enter 1 to run the software or 0 to exit. If user enters any other key without entering 1 or 0, software will give user an error message and instruct him or her to enter the mentioned key again.
2. After running the software by entering 1, software will ask user to

enter username & phone number.

3. After entering username & phone number, software will print our available route & ask user about his or her destination –
    - **a.** Dhaka to Khulna = enter 1
    - **b.** Dhaka to Rajshahi = enter 2
    - **c.** Dhaka to Comilla = enter 3
    - **d.** Dhaka to Chittagong = enter 4
    - **e.** Khulna to Dhaka = enter 5
    - **f.** Rajshahi to Dhaka = enter 6
    - **g.** Comilla to Dhaka = enter 7
    - **h.** Chittagong to Dhaka = enter 8

    If user select any other key without mentioned, software will print an error message & again ask to select the right route from user.

4. After selecting route, software will print bus number & seat plan for choosing the seat by user.
5. After choosing seat number, software will print a soft copy of ticket including all user information, bus number, seat number, coach timing & supervisor information.
6. Then software will print payment method and ask user to select one method to pay the ticket cost within 2 hours of order –
    - **a.** payment with bkash = enter 1
    - **b.** payment with rocket = enter 2

    If user select any other key without mentioned, software will print an error message & again ask to select the right payment key from user.
7. After selecting one payment method, software will print the payment number to pay and some more instructions on how to get

the booked ticket from the counter before departure of user's selected bus.

7. Source Code:

```
#include <stdio.h>


//CREATING FUNCTIONS:
void introduction();
void seatplan();
void coach();
void press();
void details_of_booking_ticket_khulna();
void details_of_booking_ticket_khulna_back();
void details_of_booking_ticket_Rajshahi();
void details_of_booking_ticket_Rajshahi_back();
void details_of_booking_ticket_Comilla();
void details_of_booking_ticket_Comilla_back();
void details_of_booking_ticket_Chittagong();
void details_of_booking_ticket_Chittagong_back();
void payment();
```

```
//MAIN FUNCTION:
int main()
{
   int start;
   printf("ONLINE BUS TICKET BOOKING OF AKANDA ENTERPRIZE!!!\n");
   printf("\nEnter 1 to Start or 0 to Exit = ");
   scanf("%d",&start);
   while(start!=1 && start!=0)
   {
      printf("\nError!!! Invalid Key!!!\n");
      printf("\nEnter 1 to Start or 0 to Exit = ");
      scanf("%d",&start);
   }

   if(start==1)
   {
      char user_name[30], phone_number[30];
      printf("\nEnter your surname only = ");
      scanf("%s",user_name);
```

```
    printf("Enter your phone number = ");
    scanf("%s",phone_number);
    printf("\nDear %s, welcome to AKANDA ENTERPRIZE!!!",user_name);


    introduction();


    int destination;
    printf("\nEnter mentioned key from above to select your destination = ");
    scanf("%d",&destination);
    while(destination!=1 && destination!=2 && destination!=3 && destination!=4 && destination!=5 && destination!=6 && destination!=7 && destination!=8)
    {
       printf("\nError!!! Invalid Key!!!\n");
       printf("\nEnter mentioned key from above to select your destination = ");
       scanf("%d",&destination);
    }
```

```
if(destination==1)
 {
    printf("\nThank you!!! You have selected DHAKA TO KHULNA route and here is the Bus schedule for Dhaka to Khulna - \n\n");

    details_of_booking_ticket_khulna();

    printf("Passenger Name : %s\n",user_name);
    printf("Phone Number : %s\n",phone_number);

    payment();

 }

 else if(destination==2)
 {
    printf("\nThank you!!! You have selected DHAKA TO RAJSHAHI route and here is the Bus schedule for Dhaka to Rajshahi - \n\n");
```

```
        details_of_booking_ticket_Rajshahi();

        printf("Passenger Name : %s\n",user_name);
        printf("Phone Number : %s\n",phone_number);

        payment();

    }

    else if(destination==3)
    {
        printf("\nThank you!!! You have selected DHAKA TO COMILLA route and here is the Bus schedule for Dhaka to Comilla - \n\n");

        details_of_booking_ticket_Comilla();

        printf("Passenger Name : %s\n",user_name);
        printf("Phone Number : %s\n",phone_number);
```

```
    payment();


}


else if(destination==4)
{
    printf("\nThank you!!! You have selected DHAKA TO CHITTAGONG route and here is the Bus schedule for Dhaka to Chittagong - \n\n");


    details_of_booking_ticket_Chittagong();


    printf("Passenger Name : %s\n",user_name);
    printf("Phone Number : %s\n",phone_number);


    payment();


}


else if(destination==5)
```

```
{
    printf("\nThank you!!! You have selected KHULNA TO DHAKA route and here is the Bus schedule for Khulna to Dhaka - \n\n");

    details_of_booking_ticket_khulna_back();

    printf("Passenger Name : %s\n",user_name);
    printf("Phone Number : %s\n",phone_number);

    payment();

}

else if(destination==6)
{
    printf("\nThank you!!! You have selected RAJSHAHI TO DHAKA route and here is the Bus schedule for Rajshahi to Dhaka - \n\n");

    details_of_booking_ticket_Rajshahi_back();
```

```
        printf("Passenger Name : %s\n",user_name);
        printf("Phone Number : %s\n",phone_number);

        payment();

    }

    else if(destination==7)
    {
        printf("\nThank you!!! You have selected COMILLA TO DHAKA route and here is the Bus schedule for Comilla to Dhaka - \n\n");

        details_of_booking_ticket_Comilla_back();

        printf("Passenger Name : %s\n",user_name);
        printf("Phone Number : %s\n",phone_number);

        payment();
```

```
    }


    else
    {
        printf("\nThank you!!! You have selected CHITTAGONG TO DHAKA route and here is the Bus schedule for Chittagong to Dhaka - \n\n");


        details_of_booking_ticket_Chittagong_back();


        printf("Passenger Name : %s\n",user_name);
        printf("Phone Number : %s\n",phone_number);


        payment();


    }
}


else
    printf("\nThank you and Exit...");
```

```
    return 0;
}


//USER DEFINED FUNCTION:
//FUNCTION FOR INTRODUCTION:
void introduction()
{
    printf("\nWe are happy to announce that here you can book your ticket as per your desire & be part of our enjoyable journey...");
    printf("\nSo here is our destination - \n");
    printf("\nDhaka to Khulna = enter 1");
    printf("\nDhaka to Rajshahi = enter 2");
    printf("\nDhaka to Comilla = enter 3");
    printf("\nDhaka to Chittagong = enter 4");
    printf("\nKhulna to Dhaka = enter 5");
    printf("\nRajshahi to Dhaka = enter 6");
    printf("\nComilla to Dhaka = enter 7");
    printf("\nChittagong to Dhaka = enter 8\n");
}
```

```
//FUNCTION FOR SEATPLAN:
void seatplan()
{
    printf("\nSeat Plan - \n\n");
    printf("\n---       (^_^)\n");
    printf("---         \n");
    int seat_row,seat_column;
        for(seat_row=1; seat_row<=8; seat_row++)
        {
            for(seat_column=1; seat_column<=5; seat_column++)
            {
                if(seat_row==1 && seat_column==1)
                {
                    printf("A1 ");
                }
                if(seat_row==1 && seat_column==2)
                {
                    printf("A2 ");
                }
```

```
if(seat_row==1 && seat_column==3)
{
   printf("  ");
}
if(seat_row==1 && seat_column==4)
{
   printf(" A3 ");
}
if(seat_row==1 && seat_column==5)
{
   printf(" A4\n\n");
}
if(seat_row==2 && seat_column==1)
{
   printf("B1 ");
}
if(seat_row==2 && seat_column==2)
{
   printf("B2 ");
}
```

```
if(seat_row==2 && seat_column==3)
{
   printf("  ");
}
if(seat_row==2 && seat_column==4)
{
   printf(" B3 ");
}
if(seat_row==2 && seat_column==5)
{
   printf(" B4\n\n");
}
if(seat_row==3 && seat_column==1)
{
   printf("C1 ");
}
if(seat_row==3 && seat_column==2)
{
   printf("C2 ");
}
```

```
if(seat_row==3 && seat_column==3)
{
   printf("  ");
}
if(seat_row==3 && seat_column==4)
{
   printf(" C3 ");
}
if(seat_row==3 && seat_column==5)
{
   printf(" C4\n\n");
}
if(seat_row==4 && seat_column==1)
{
   printf("D1 ");
}
if(seat_row==4 && seat_column==2)
{
   printf("D2 ");
}
```

```
if(seat_row==4 && seat_column==3)
{
   printf("  ");
}
if(seat_row==4 && seat_column==4)
{
   printf(" D3 ");
}
if(seat_row==4 && seat_column==5)
{
   printf(" D4\n\n");
}
if(seat_row==5 && seat_column==1)
{
   printf("E1 ");
}
if(seat_row==5 && seat_column==2)
{
   printf("E2 ");
}
```

```
if(seat_row==5 && seat_column==3)
{
   printf("  ");
}
if(seat_row==5 && seat_column==4)
{
   printf(" E3 ");
}
if(seat_row==5 && seat_column==5)
{
   printf(" E4\n\n");
}
if(seat_row==6 && seat_column==1)
{
   printf("F1 ");
}
if(seat_row==6 && seat_column==2)
{
   printf("F2 ");
}
```

```
if(seat_row==6 && seat_column==3)
{
   printf("  ");
}
if(seat_row==6 && seat_column==4)
{
   printf(" F3 ");
}
if(seat_row==6 && seat_column==5)
{
   printf(" F4\n\n");
}
if(seat_row==7 && seat_column==1)
{
   printf("G1 ");
}
if(seat_row==7 && seat_column==2)
{
   printf("G2 ");
}
```

```
if(seat_row==7 && seat_column==3)
{
   printf("  ");
}
if(seat_row==7 && seat_column==4)
{
   printf(" G3 ");
}
if(seat_row==7 && seat_column==5)
{
   printf(" G4\n\n");
}
if(seat_row==8 && seat_column==1)
{
   printf("H1 ");
}
if(seat_row==8 && seat_column==2)
{
   printf("H2 ");
}
```

```
            if(seat_row==8 && seat_column==3)
            {
               printf("H3");
            }
            if(seat_row==8 && seat_column==4)
            {
               printf(" H4 ");
            }
            if(seat_row==8 && seat_column==5)
            {
               printf(" H5\n\n");
            }
         }
      }
}


//FUNCTION FOR COACH TIMING:
void coach()
{
```

```
int row,column;
for(row=1; row<=2; row++)
{
   for(column=1; column<=4; column++)
   {
      if(row==1 && column==1)
      {
         printf("Morning Coach\t");
      }
      if(row==1 && column==2)
      {
         printf("Day Coach\t");
      }
      if(row==1 && column==3)
      {
         printf("Night Coach\t");
      }
      if(row==1 && column==4)
      {
         printf("VIP Coach\n");
```

```
        }
        if(row==2 && column==1)
        {
           printf(" (7:00 am)\t");
        }
        if(row==2 && column==2)
        {
           printf("(12:00 pm)\t");
        }
        if(row==2 && column==3)
        {
           printf("(6:00 pm)\t");
        }
        if(row==2 && column==4)
        {
           printf("(11:00 am)\n");
        }
     }
  }
}
```

```
//FUNCTION FOR PRESSING COACH TIMING:
void press()
{
   printf("\nFor MORNING coach (ticket cost : 350 taka only) = enter 1");
   printf("\nFor DAY coach (ticket cost : 350 taka only) = enter 2");
   printf("\nFor NIGHT coach (ticket cost : 350 taka only) = enter 3");
   printf("\nFor VIP coach (ticket cost : 700 taka only) = enter 4 (including hostage,AC & Television service and snacks)\n");
   printf("\nEnter mentioned key from above to select your coach = ");
}


//FUNCTION FOR DHAKA TO KHULNA ROUTE:
void details_of_booking_ticket_khulna()
{

   coach();
   int coach_for_Khulna;
```

```
    press();

    scanf("%d",&coach_for_Khulna);
    while(coach_for_Khulna!=1 && coach_for_Khulna!=2 && coach_for_Khulna!=3 && coach_for_Khulna!=4)
    {
        printf("\nError!!! Invalid Key!!!\n");
        printf("\nEnter mentioned key from above to select your coach = ");
        scanf("%d",&coach_for_Khulna);
    }

    if(coach_for_Khulna==1)
    {
        printf("\nBus Number: Dhaka Metro-HA,32-37-81\n");

        seatplan();

        char seat_number[10];
        printf("\nEnter your desired seat : ");
        scanf("%s",seat_number);
```

```
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to KHULNA\n");
    printf("Departure Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,32-37-81");
    printf("\nSupervisor Name : Tarek Hossain");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Khulna==2)
{
    printf("\nBus Number: Dhaka Metro-LA,42-47-91\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
```

```
    printf("\nDestination : DHAKA to KHULNA\n");
    printf("Departure Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,42-47-91");
    printf("\nSupervisor Name : Sazedul Islam Suman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Khulna==3)
{
    printf("\nBus Number: Dhaka Metro-HA,52-57-71\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to KHULNA\n");
    printf("Departure Time : 6:00 pm");
```

```
    printf("\nBus Number: Dhaka Metro-HA,52-57-71");
    printf("\nSupervisor Name : Shohag");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
    printf("\nBus Number: Dhaka Metro-HA,55-55-55\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to KHULNA");
    printf("\nDeparture Time : 11:00 am");
    printf("\nBus Number: Dhaka Metro-HA,55-55-55");
    printf("\nSupervisor Name : Sanjida Akter");
```

```
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}


//FUNCTION FOR KHULNA TO DHAKA ROUTE:
void details_of_booking_ticket_khulna_back()
{

    coach();

    int coach_for_Khulna;

    press();

    scanf("%d",&coach_for_Khulna);
    while(coach_for_Khulna!=1 && coach_for_Khulna!=2 && coach_for_Khulna!=3 && coach_for_Khulna!=4)
    {
        printf("\nError!!! Invalid Key!!!\n");
```

```
    printf("\nEnter mentioned key from above to select your coach = ");
    scanf("%d",&coach_for_Khulna);
}

if(coach_for_Khulna==1)
{
    printf("\nBus Number: Dhaka Metro-HA,32-37-81\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : KHULNA to Dhaka");
    printf("\nDeparture Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,32-37-81");
    printf("\nSupervisor Name : Shohag");
    printf("\nSupervisor Phone Number : 01646731824\n");
```

```
}

else if(coach_for_Khulna==2)
{
    printf("\nBus Number: Dhaka Metro-LA,42-47-91\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : KHULNA to Dhaka");
    printf("\nDeparture Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,42-47-91");
    printf("\nSupervisor Name : Tarek Hossain");
    printf("\nSupervisor Phone Number : 01646731824\n");
}
else if(coach_for_Khulna==3)
```

```
{
    printf("\nBus Number: Dhaka Metro-HA,52-57-71\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s\n",seat_number);
    printf("\nDestination : KHULNA to Dhaka");
    printf("\nDeparture Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,52-57-71");
    printf("\nSupervisor Name : Sazedul Islam Suman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
    printf("\nBus Number: Dhaka Metro-HA,55-55-55\n");
```

```
        seatplan();

        char seat_number[10];
        printf("\nEnter your desired seat : ");
        scanf("%s",seat_number);
        printf("\nThis is the soft copy of your ticket - \n");
        printf("\nSeat Number : %s",seat_number);
        printf("\nDestination : KHULNA to Dhaka");
        printf("\nDeparture Time : 11:00 am");
        printf("\nBus Number: Dhaka Metro-HA,55-55-55");
        printf("\nSupervisor Name : M.B.Abu Noman");
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}


//FUNCTION FOR DHAKA TO RAJSHAHI ROUTE:
void details_of_booking_ticket_Rajshahi()
{
 coach();
```

```
    int coach_for_Rajshahi;


    press();


    scanf("%d",&coach_for_Rajshahi);
    while(coach_for_Rajshahi!=1 && coach_for_Rajshahi!=2 &&
coach_for_Rajshahi!=3 && coach_for_Rajshahi!=4)
    {
        printf("\nError!!! Invalid Key!!!\n");
        printf("\nEnter mentioned key from above to select your coach = ");
        scanf("%d",&coach_for_Rajshahi);
    }


    if(coach_for_Rajshahi==1)
    {
        printf("\nBus Number: Dhaka Metro-HA,22-27-51\n");


        seatplan();
        char seat_number[10];
        printf("\nEnter your desired seat : ");
```

```
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to RAJSHAHI");
    printf("\nDeparture Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,22-27-51");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Rajshahi==2)
{
    printf("\nBus Number: Dhaka Metro-LA,82-89-91\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
```

```
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to RAJSHAHI");
    printf("\nDeparture Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,82-89-91");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Rajshahi==3)
{
    printf("\nBus Number: Dhaka Metro-HA,42-57-42\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to RAJSHAHI");
```

```
    printf("\nDeparture Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,42-57-42");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
    printf("\nBus Number: Dhaka Metro-HA,57-75-55\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to RAJSHAHI");
    printf("\nDeparture Time : 11:00 am");
    printf("\nBus Number: Dhaka Metro-HA,57-75-55");
```

```
        printf("\nSupervisor Name : M.B.Abu Noman");
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}


//FUNCTION FOR RAJSHAHI TO DHAKA:
void details_of_booking_ticket_Rajshahi_back()
{

    coach();

    int coach_for_Rajshahi;

    press();

    scanf("%d",&coach_for_Rajshahi);
    while(coach_for_Rajshahi!=1 && coach_for_Rajshahi!=2 && coach_for_Rajshahi!=3 && coach_for_Rajshahi!=4)
    {
```

```
    printf("\nError!!! Invalid Key!!!\n");
    printf("\nEnter mentioned key from above to select your coach = ");
    scanf("%d",&coach_for_Rajshahi);
}

if(coach_for_Rajshahi==1)
{
    printf("\nBus Number: Dhaka Metro-HA,22-27-51\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : RAJSHAHI to DHAKA");
    printf("\nDeparture Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,22-27-51");
    printf("\nSupervisor Name : M.B.Abu Noman");
```

```
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Rajshahi==2)
{
    printf("\nBus Number: Dhaka Metro-LA,82-89-91\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : RAJSHAHI to DHAKA");
    printf("\nDeparture Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,82-89-91");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}
```

```
else if(coach_for_Rajshahi==3)
{
    printf("\nBus Number: Dhaka Metro-HA,42-57-42\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : RAJSHAHI to DHAKA");
    printf("\nDeparture Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,42-57-42");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
```

```
        printf("\nBus Number: Dhaka Metro-HA,57-75-55\n");

        seatplan();

        char seat_number[10];
        printf("\nEnter your desired seat : ");
        scanf("%s",seat_number);
        printf("\nThis is the soft copy of your ticket - \n");
        printf("\nSeat Number : %s",seat_number);
        printf("\nDestination : RAJSHAHI to DHAKA");
        printf("Departure Time : 11:00 am");
        printf("\nBus Number: Dhaka Metro-HA,57-75-55");
        printf("\nSupervisor Name : M.B.Abu Noman");
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}


//FUNCTION FOR DHAKA TO COMILLA ROUTE:
void details_of_booking_ticket_Comilla()
```

```
{

    coach();

    int coach_for_Comilla;

    press();

    scanf("%d",&coach_for_Comilla);
    while(coach_for_Comilla!=1 && coach_for_Comilla!=2 && coach_for_Comilla!=3 && coach_for_Comilla!=4)
    {
        printf("\nError!!! Invalid Key!!!\n");
        printf("\nEnter mentioned key from above to select your coach = ");
        scanf("%d",&coach_for_Comilla);
    }

    if(coach_for_Comilla==1)
    {
        printf("\nBus Number: Dhaka Metro-HA,12-27-51\n");
```

```
    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to COMILLA\n");
    printf("Departure Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,12-27-51");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Comilla==2)
{
    printf("\nBus Number: Dhaka Metro-LA,82-88-91\n");

    seatplan();
    char seat_number[10];
```

```
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to COMILLA\n");
    printf("Departure Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,82-88-91");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Comilla==3)
{
    printf("\nBus Number: Dhaka Metro-HA,42-57-52\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
```

```
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to COMILLA\n");
    printf("Departure Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,42-57-52");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
    printf("\nBus Number: Dhaka Metro-HA,55-75-45\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
```

```
        printf("\nDestination : DHAKA to COMILLA\n");
        printf("Departure Time : 11:00 am");
        printf("\nBus Number: Dhaka Metro-HA,55-75-45");
        printf("\nSupervisor Name : M.B.Abu Noman");
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}


//FUNCTION FOR COMILLA TO DHAKA ROUTE:
void details_of_booking_ticket_Comilla_back()
{
    coach();

    int coach_for_Comilla;

    press();

    scanf("%d",&coach_for_Comilla);
```

```
   while(coach_for_Comilla!=1 && coach_for_Comilla!=2 && coach_for_Comilla!=3 && coach_for_Comilla!=4)
   {
      printf("\nError!!! Invalid Key!!!\n");
      printf("\nEnter mentioned key from above to select your coach = ");
      scanf("%d",&coach_for_Comilla);
   }

   if(coach_for_Comilla==1)
   {
      printf("\nBus Number: Dhaka Metro-HA,12-27-51\n");

      seatplan();

      char seat_number[10];
      printf("\nEnter your desired seat : ");
      scanf("%s",seat_number);
      printf("\nThis is the soft copy of your ticket - \n");
      printf("\nSeat Number : %s",seat_number);
      printf("\nDestination : COMILLA to DHAKA\n");
```

```
    printf("Departure Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,12-27-51");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Comilla==2)
{
    printf("\nBus Number: Dhaka Metro-LA,82-88-91\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : COMILLA to DHAKA\n");
    printf("Departure Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,82-88-91");
```

```
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Comilla==3)
{
    printf("\nBus Number: Dhaka Metro-HA,42-57-52\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : COMILLA to DHAKA\n");
    printf("Departure Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,42-57-52");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
```

```
    }

    else
    {
        printf("\nBus Number: Dhaka Metro-HA,55-75-45\n");

        seatplan();

        char seat_number[10];
        printf("\nEnter your desired seat : ");
        scanf("%s",seat_number);
        printf("\nThis is the soft copy of your ticket - \n");
        printf("\nSeat Number : %s",seat_number);
        printf("\nDestination : COMILLA to DHAKA\n");
        printf("Departure Time : 11:00 am");
        printf("\nBus Number: Dhaka Metro-HA,55-75-45");
        printf("\nSupervisor Name : M.B.Abu Noman");
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}
```

```
//FUNCTION FOR DHAKA TO CHITTAGONG ROUTE:
void details_of_booking_ticket_Chittagong()
{

    coach();

    int coach_for_Chittagong;

    press();

    scanf("%d",&coach_for_Chittagong);
    while(coach_for_Chittagong!=1 && coach_for_Chittagong!=2 &&
coach_for_Chittagong!=3 && coach_for_Chittagong!=4)
    {
        printf("\nError!!! Invalid Key!!!\n");
        printf("\nEnter mentioned key from above to select your coach = ");
        scanf("%d",&coach_for_Chittagong);
    }
    if(coach_for_Chittagong==1)
```

```
{
    printf("\nBus Number: Dhaka Metro-HA,13-27-51\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to CHITTAGONG\n");
    printf("Departure Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,13-27-51");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Chittagong==2)
{
    printf("\nBus Number: Dhaka Metro-LA,62-86-91\n");
```

```
    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to CHITTAGONG\n");
    printf("Departure Time : 12:00 pm");
    printf("\nBus Number: Dhaka Metro-LA,62-86-91");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Chittagong==3)
{
    printf("\nBus Number: Dhaka Metro-HA,02-57-52\n");
    seatplan();

    char seat_number[10];
```

```
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : DHAKA to CHITTAGONG\n");
    printf("Departure Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,02-57-52");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
    printf("\nBus Number: Dhaka Metro-HA,55-65-46\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
```

```
        printf("\nThis is the soft copy of your ticket - \n");
        printf("\nSeat Number : %s",seat_number);
        printf("\nDestination : DHAKA to CHITTAGONG\n");
        printf("Departure Time : 11:00 am");
        printf("\nBus Number: Dhaka Metro-HA,55-65-46");
        printf("\nSupervisor Name : M.B.Abu Noman");
        printf("\nSupervisor Phone Number : 01646731824\n");
    }
}


//FUNCTION FOR CHITTAGONG TO DHAKA ROUTE:
void details_of_booking_ticket_Chittagong_back()
{
    coach();

    int coach_for_Chittagong;

    press();
```

```
    scanf("%d",&coach_for_Chittagong);
    while(coach_for_Chittagong!=1 && coach_for_Chittagong!=2 &&
coach_for_Chittagong!=3 && coach_for_Chittagong!=4)
    {
        printf("\nError!!! Invalid Key!!!\n");
        printf("\nEnter mentioned key from above to select your coach = ");
        scanf("%d",&coach_for_Chittagong);
    }

    if(coach_for_Chittagong==1)
    {
        printf("\nBus Number: Dhaka Metro-HA,13-27-51\n");

        seatplan();

        char seat_number[10];
        printf("\nEnter your desired seat : ");
        scanf("%s",seat_number);
        printf("\nThis is the soft copy of your ticket - \n");
        printf("\nSeat Number : %s",seat_number);
```

```
    printf("\nDestination : CHITTAGONG to DHAKA\n");
    printf("Departure Time : 7:00 am");
    printf("\nBus Number: Dhaka Metro-HA,13-27-51");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Chittagong==2)
{
    printf("\nBus Number: Dhaka Metro-LA,62-86-91\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : CHITTAGONG to DHAKA\n");
    printf("Departure Time : 12:00 pm");
```

```
    printf("\nBus Number: Dhaka Metro-LA,62-86-91");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else if(coach_for_Chittagong==3)
{
    printf("\nBus Number: Dhaka Metro-HA,02-57-52\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : CHITTAGONG to DHAKA\n");
    printf("Departure Time : 6:00 pm");
    printf("\nBus Number: Dhaka Metro-HA,02-57-52");
    printf("\nSupervisor Name : M.B.Abu Noman");
```

```
    printf("\nSupervisor Phone Number : 01646731824\n");
}

else
{
    printf("\nBus Number: Dhaka Metro-HA,55-65-46\n");

    seatplan();

    char seat_number[10];
    printf("\nEnter your desired seat : ");
    scanf("%s",seat_number);
    printf("\nThis is the soft copy of your ticket - \n");
    printf("\nSeat Number : %s",seat_number);
    printf("\nDestination : CHITTAGONG to DHAKA\n");
    printf("Departure Time : 11:00 am");
    printf("\nBus Number: Dhaka Metro-HA,55-65-46");
    printf("\nSupervisor Name : M.B.Abu Noman");
    printf("\nSupervisor Phone Number : 01646731824\n");
}
```

```
}


//FUNCTION FOR PAYMENT METHOD:
void payment()
{
   int payment;
   printf("\nN.B. - To complete your prebooking, please pay the ticket cost within 2 hours of your order!!!\n");
   printf("\nPAYMENT METHOD - ");
   printf("\n\tpayment with bkash = enter 1");
   printf("\n\tpayment with rocket = enter 2\n");
   printf("\nEnter mentioned key from above to select your payment method = ");
   scanf("%d",&payment);
   while(payment!=1 && payment!=2)
   {
      printf("\nError!!! Invalid Key!!!\n");
      printf("\nEnter mentioned key from above to select your payment method = ");
      scanf("%d",&payment);
```

```
}


if(payment==1)
{
    printf("\nThank you for choosing bkash!!!\n");
    printf("\nStep 1.Make sure your payment to (01646731824) this number.");
    printf("\nStep 2.You will get a pin number via text massage through your entered phone number.");
    printf("\nStep 3.Come to our ticket counter before the departure of your bus along with the pin number.");
    printf("\nStep 4.Collect the hard copy of the ticket and enjoy your journey!!!\n");
    printf("\nTHANK YOU!!!");
}


else
{
   printf("\nThank you for choosing rocket!!!\n");
   printf("\nStep 1. Make sure your payment to (01712177490) this number.");
```

```
        printf("\nStep 2. You will get a pin number via text massage through your entered phone number.");

        printf("\nStep 3. Come to our ticket counter before the departure of your bus along with the pin number.");

        printf("\nStep 4. Collect the hard copy of the ticket and enjoy your journey!!!\n");

        printf("\nTHANK YOU!!!");

    }

}
```

8. Conclusion:

I have tried my best to make a well-developed project so that this can update the current old system of bus ticket booking. I have felt some lack of features in my own project as user and I hope that I need to update myself more to fulfill the lacking. So that’s all about my project.

THE END