```c
//*********Booking Online Bus Tickets **********//

#include <stdio.h>
#include<stdlib.h>
#include<time.h>
int route();
int tickets();
int details(int);
int payment(int);
struct bus_ticket
{
      char date[10];
};
typedef struct person
{
      char name[50];
      char age[10];
      char Phone_number[50];
      char Mail_id[50];
}pers;
int main()
{
      int SOUDES;
      time_t t;
      time(&t);
      printf("%s",ctime(&t));
      struct bus_ticket b[50];
      printf("\n######  WELCOME TO BUS4U  ######\n\n");
      printf("Enter the date after this current date and time when you
want to travel:\n"); //Enter the date of travel
      scanf("%s",b[50].date);
      printf("\nDate = %s\n",b[50].date);
      printf("\nThe Bus-Routes on this Date:\n\t1.Guntur-
Vijayawada\n\t2.Vizag-Hyderabad\n\t3.Vijayawada-Kadapa\n\t4.Waragal-
Ongole\n\t5.Vijayawada-Tirupati\n"); //select the routes
      printf("\nEnter the bus route number which you want to travel=\n");
//to select the bus route number
      scanf("%d",&SOUDES);
      switch(SOUDES)
      {
            case 1:
                route1();
                break;
            case 2:
                route2();
                 break;
            case 3:
                route3();
                 break;
            case 4:
                 route4();
                 break;
            case 5:
                route5();
                 break;
      }
}
int route1()
```

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{
        printf("This bus route is Guntur-Vijayawada\n");
        int guvi;
        printf("Types of buses for the route guntur to vijayawada:
"); //Select the type of bus via this route
        printf("\n\t 1.APSRTC at 7:00am\n\t 2.LUXURY at 1:00pm\n\t
3.DELUXE at 9:00pm\n");
        scanf("%d",&guvi);
        switch(guvi)
        {
          case 1:
                printf("you have selected APSRTC bus\n");
                tickets1();
                break;
          case 2:
                  printf("you have selected LUXURY bus\n");
                  tickets2();
                  break;
            case 3:
                  printf("you have selected DULEX bus\n");
                  tickets3();
                  break;
        }
}
int route2()
{
        printf("This bus route is Vizag-Hyderabad\n");
        int vihy;
        printf("Types of buses for the route Vizag-Hyderabad:  ");
//Select the route via this route
        printf("\n\t 1.orange travels at 9:00am\n\t 2.Knight rider at
2:00pm\n\t 3.SRM travels at 8:00pm\n");
        scanf("%d",&vihy);
        switch(vihy)
        {
          case 1:
                printf("you have selected Orange travels bus\n");
                tickets1();
                break;
          case 2:
                  printf("you have selected Knight rider bus\n");
                  tickets2();
                  break;
            case 3:
                  printf("you have selected SRM travels bus\n");
                  tickets3();
                  break;
        }
}
int route3()
{
        printf("This bus route is Vijayawada-Kadap\n");
        int vihy;
        printf("Types of buses for the route Vizayawada-Kadapa:  ");
//Select the route via this route
        printf("\n\t 1.Hans travels at 6:00am\n\t 2.AMD at 3:00pm\n\t
3.SYT travels at 10:00pm\n");
        scanf("%d",&vihy);
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            switch(vihy)
            {
              case 1:
                    printf("you have selected Hans travels bus\n");
                    tickets1();
                    break;
              case 2:
                        printf("you have selected AMD bus\n");
                        tickets2();
                        break;
                case 3:
                    printf("you have selected SYT travels bus\n");
                    tickets3();
                    break;
            }
}
int route4()
{
            printf("This bus route isWarangal-Ongole\n");
            int vihy;
            printf("Types of buses for the route Warangal-Ongole:   ");
//select the route via this route
            printf("\n\t 1.Sea bird at 4:00am\n\t 2.MDA at 1:00pm\n\t
3.sky stars travels at 9:00pm\n");
          scanf("%d",&vihy);
          switch(vihy)
          {
            case 1:
                  printf("you have selected sea bird\n");
                  tickets1();
                  break;
            case 2:
                      printf("you have selected MDA\n");
                      tickets2();
                      break;
                case 3:
                    printf("you have selected sky stars \n");
                    tickets3();
                    break;
          }
}int route5()
{
            printf("This bus route is Vijayawada -Tirupathi\n");
            int vihy;
            printf("Types of buses for the route Vijayawada-Tirupathi:
"); //Select the route via this route
            printf("\n\t 1.ap travels at 6:00am\n\t 2.Vikram travels at
3:00pm\n\t 3.amaravathi travels at 10:00pm\n");
          scanf("%d",&vihy);
          switch(vihy)
          {
            case 1:
                  printf("you have selected ap travels\n");
                  tickets1();
                  break;
            case 2:
                      printf("you have selected Vikram travels\n");
                      tickets2();
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                    break;

            case 3:
                    printf("you have selected amaravathi travels\n ");
                    tickets3();
                    break;
        }
}
int tickets1()
{
    printf("Select the seat according to your comfort: \n");
     printf("\n\n -------------------------------- \n|
|\n -------------------------------- \n|  .__.   .__.              .__.
.__.  |\n|  |1 |  |2 |          |3 |  |4 |  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |5 |  |6 |          |7 |  |8 |  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |9 |  |10|          |11|  |12|  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |13|  |14|          |15|  |16|  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |17|  |18|          |19|  |20|  |\n|  |__|  |__|
|__|  |__|  |\n|                                    .__.  |\n|  .__.  .__.
|21|  |22|   |23|  |24|  |25|  |\n|  |__|  |__|  |__|  |\n|  |__|  |__|  |\n -------------------
-------------- \n");
    int i,n,seats,tickt;
    printf("Enter the number of seats you want to select = \n\n");
//enter the number of seats
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
      printf("Enter the seat number b/w 1 to 25 =\n");
      scanf("%d",&seats);
      }
      tickt=details1(n);
}
int tickets2()
{
    printf("Select the seat according to your comfort: \n");
     printf("\n\n -------------------------------- \n|
|\n -------------------------------- \n|  .__.   .__.              .__.
.__.  |\n|  |1 |  |2 |          |3 |  |4 |  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |5 |  |6 |          |7 |  |8 |  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |9 |  |10|          |11|  |12|  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |13|  |14|          |15|  |16|  |\n|  |__|  |__|
|__|  |__|  |\n|                                            |\n|  .__.  .__.
.__.  .__.  |\n|  |17|  |18|          |19|  |20|  |\n|  |__|  |__|
|__|  |__|  |\n|                                    .__.  |\n|  .__.  .__.
|21|  |22|   |23|  |24|  |25|  |\n|  |__|  |__|  |__|  |\n|  |__|  |__|  |\n -------------------
-------------- \n");
    int i,n,seats,tickt;
    printf("Enter the number of seats you want to select =\n\n");//enter
the number of seats
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    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
      printf("Enter the seat number b/w 1 to 25 =\n");
      scanf("%d",&seats);
      }
      tickt=details2(n);
}
int tickets3()
{
    printf("Select the seat according to your comfort: \n");
     printf("\n\n -------------------------------- \n|
|\n -------------------------------- \n|  .__.  .__.               .__.
.__.  |\n|  |1 |  |2 |          |3 |  |4 |  |\n|  |__|  |__|          |__|
|__|  |\n|  .__.  .__.  |\n|  |5 |  |6 |          |7 |  |8 |  |\n|  |__|  |__|  |\n|  .__.  .__.  |\n|
|__|  |__|  |\n|  |9 |  |10|          |11|  |12|  |\n|  .__.  .__.  |\n|  |__|  |__|  |\n|
.__.  .__.  |\n|  |13|  |14|          |15|  |16|  |\n|  |__|  |__|  |\n|  .__.  .__.  |\n|
.__.  .__.  |\n|  |17|  |18|          |19|  |20|  |\n|  |__|  |__|  |\n|  .__.  .__.  .__.  |\n|
.__.  .__.  |\n|  |21|  |22|    |23|  |24|  |25|  |\n|  |__|  |__|  |__|  |\n|  |__|  |__|  |\n -------------------
-------------- \n");
    int i,n,seats,tickt;
    printf("Enter the number of seats you want to select = \n\n");//enter
the number of seats
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
      printf("Enter the seat number b/w 1 to 25 =\n");
      scanf("%d",&seats);
      }
      tickt=details3(n);
}
int details1(int n)
{
    pers *p;
      int i,token;
      for(i=1;i<=n;i++)
      {
            printf("Enter the Name of person %d:\n",i); //name of the
person
            fflush(stdin);
            scanf("%[^\n]",&p[50].name);
            printf("Enter the Age of person %d:\n",i);//age of the person
            scanf("%s",&p[10].age);
            printf("Enter the Phone number of person %d:\n",i);//phone
number of the person
            scanf("%s",&p[50].Phone_number);
            printf("Enter the Mail Id of person %d:\n",i);//Mail-id of
the person
            scanf("%s",&p[50].Mail_id);
            printf("\n  The details of person %d:\n",i);
            printf(" ----------------------------------------------
\n");
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                printf(" Name of the person =%s\n Age = %s\n phone number =
%s\n Mail Id =
%s\n",p[50].name,p[10].age,p[50].Phone_number,p[50].Mail_id);
                printf(" -----------------------------------------------
\n");
        }
        token=payment1(n);
}
int details2(int n)
{
    pers *p;
    int i,token;
    for(i=1;i<=n;i++)
    {
            printf("Enter the Name of person %d:\n",i); //name of the
person
            fflush(stdin);
            scanf("%[^\n]",&p[50].name);
            printf("Enter the Age of person %d:\n",i); //age of the
person
            scanf("%s",&p[10].age);
            printf("Enter the Phone number of person %d:\n",i); //phone
number of the person
            scanf("%s",&p[50].Phone_number);
            printf("Enter the Mail Id of person %d:\n",i); //mail-id of
the person
            scanf("%s",&p[50].Mail_id);
            printf("\n  The details of person %d:\n",i);
            printf(" -----------------------------------------------
\n");
            printf(" Name of the person =%s\n Age = %s\n phone number =
%s\n Mail Id =
%s\n",p[50].name,p[10].age,p[50].Phone_number,p[50].Mail_id);
            printf(" -----------------------------------------------
\n");
        }
        token=payment2(n);
}
int details3(int n)
{
    pers *p;
    int i,token;
    for(i=1;i<=n;i++)
    {
            printf("Enter the Name of person %d:\n",i);//Name of the
person
            fflush(stdin);
            scanf("%[^\n]",&p[50].name);
            printf("Enter the Age of person %d:\n",i);//age of the person
            scanf("%s",&p[10].age);
            printf("Enter the Phone number of person %d:\n",i);//phone
number of the person
            scanf("%s",&p[50].Phone_number);
            printf("Enter the Mail Id of person %d:\n",i);//mail-id of
the person
            scanf("%s",&p[50].Mail_id);
            printf("\n  The details of person %d:\n",i);
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```c
            printf(" -----------------------------------------------
\n");
            printf(" Name of the person =%s\n Age = %s\n phone number =
%s\n Mail Id =
%s\n",p[50].name,p[10].age,p[50].Phone_number,p[50].Mail_id);
            printf(" -----------------------------------------------
\n");
        }
        token=payment3(n);
}
int payment1(int n)
{
        int z;
        printf("Each ticket costs = 500/-\n");
        int amount=500,cost,bill_amount;
        bill_amount = n*amount;
        printf("Total bill amount is %d",bill_amount); //total bill
        printf("\nEnter the amount = \n");
        scanf("%d",&cost);
        if(cost==bill_amount)
        {
            printf("Payment is successful\n Do you want to continue booking
(1-Yes/0-No):\n");
        }
        else
        {
            printf("Payment declined\nPlease try again\n");
            printf("Do you want to continue booking (1-Yes/0-No):\n");
        }
        scanf("%d",&z);
        if(z== 1)
        {
            main();
        }
        if (z==0)
        {
            exit(0);
        }
}
int payment2(int n)
{
        int z;
        printf("Each ticket costs = 700/-\n");
        int amount=700,cost,bill_amount;
        bill_amount = n*amount;
        printf("Total bill amount is %d",bill_amount);
        printf("\nEnter the amount = \n");
        scanf("%d",&cost);
        if(cost==bill_amount)
        {
            printf("Payment is successful\n Do you want to continue booking
(1-Yes/0-No):\n");
        }
        else
        {
            printf("Payment declined\nPlease try again\n");
            printf("Do you want to continue booking (1-Yes/0-No):\n");
        }
```

```c
        scanf("%d",&z);
        if(z== 1)
        {
                main();
        }
        if (z==0)
        {
                exit(0);
        }
}
int payment3(int n)
{
        printf("Each ticket costs = 1000/-\n");
        int amount=1000,cost,bill_amount;
        bill_amount = n*amount;
        int z;
        printf("Total bill amount is %d\n",bill_amount);//total bill
        printf("\nEnter the amount = \n");
        scanf("%d",&cost);
        if(cost==bill_amount)
        {
            printf("Payment is successful\n Do you want to continue booking
(1-Yes/0-No):\n");
        }
        else
        {
                printf("Payment declined\nPlease try again\n");
                printf("Do you want to continue booking (1-Yes/0-No):\n");
        }
        scanf("%d",&z);
        if(z== 1)
        {
                main();
        }
        if (z==0)
        {
                exit(0);
        }
}
```