RTC Booking System

A Project Submitted during 1ˢᵗ Year 1ˢᵗ Semester in Oct'2018 using C at :

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Submitted by :

- T.N.S.SIVANI– 18911A0B6
- K.SHALINI– 18911A0583
- SRAVANI–18911A0585
- NAVEEN REDDY –18911A05B5

Subject : **Programming and Problem Solving – I (PPS – I)**

Developed under the guidance of :

Dr. Siddhartha Ghosh

__Content__

Introduction :

This project is about RTC ticket booking system.It has many options like tracking,cancelation,showing schedule of all buses available and most important for booking tickets.The project is done by simple switch cases,loops,printf function and strings.Hence it could be even understood by any student having some basic knowledge of C.

The functions used :

home() :

    It takes the user back to the starting page and enables the user to access all the options again from start.

end1() :

    This function is used at the end of pages so that the user can make a choice to go back to home page or end activity.

coup_ofers() :

 Displays available coupons.

 stickets() : Search tickets

  This function is used to check availability of tickets

btickets():book tickets

 This function takes all the input from the user and processes it and gives output in the form of a ticket.

seatalot(): Over veiw of the bus

 This function gives a graphical representation of the bus and helps the user in choosing the seats.

sbusdet(): Show bus details

  It gives a tabular form which shows the information about different buses their timings,fares,etc.

trak(): Tracking

  This enables user to track the position of the bus.

cancel(): Cancelation of tickets

  This function is used for the cancellation of tickets.

The Code :

[main.c]

```c
#include <stdio.h>
#include <stdlib.h>
#include "headers.h"

char type,fr,to;
int main()
{
    int i;

    printf("------------------------------------------------------------------------\n");
    printf("**********Welcome to TSRTC**********");
        printf("\n  1.Search  tickets\n          2.Book  tickets\n          3.Show  bus  details\n 4.Cancellation\n   5.Tracking\n    6.Coupons and offers\n ");
    printf("Enter your choice:\n");
    scanf("%d",&i);
     switch(i)
    {
     case 1:
        stickets();
        break;
     case 2:
        btickets();
        break;
     case 3:
        sbusdet();
        break;
     case 4:
        cancel();
     case 5:
        trak();
        break;
     case 6:
        coup_ofers();
     default :
      home();
     }

    printf("-----------------------------------------------------------\n");
```

```c
    printf("_____...........Thank you..........._____");

 return 0;
}
```


-
[header.h]

```c
#ifndef HEADERS_SEATALOT_INCLUDED
#define HEADERS_SEATALOT_INCLUDED
void seatalot();
#endif // HEADERS_SEATALOT_INCLUDED
#ifndef PRNTTKT_H_INCLUDED
#define PRNTTKT_H_INCLUDED
void prnttkt();
#endif // HEADERS_PRNTTKT_INCLUDED
#ifndef STICKETS_H_INCLUDED
#define STICKETS_H_INCLUDED
void stickets();
#endif // STICKETS_H_INCLUDED
#ifndef BTICKETS_H_INCLUDED
#define BTICKETS_H_INCLUDED
void btickets();
#endif // BTICKETS_H_INCLUDED
#ifndef SBUSDET_H_INCLUDED
#define SBUSDET_H_INCLUDEDSSS
void sbusdet();
#endif // SBUSDET_H_INCLUDED
#ifndef HOME_H_INCLUDED
#define HOME_H_INCLUDED
 void home();
#endif // HOME_H_INCLUDED
#ifndef END1_H_INCLUDED
#define END1_H_INCLUDED
void end1();
#endif // END1_H_INCLUDED
#ifndef TRAK_H_INCLUDED
#define TRAK_H_INCLUDED
void trak();
#endif // TRAK_H_INCLUDED
#ifndef CANCEL_H_INCLUDED
#define CANCEL_H_INCLUDED
void cancel();
#endif // CANCEL_H_INCLUDED
```

--

[myfunctions.c]

```c
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#define FLUSH while (getchar() !='\n')
int price;
void prnttkt();
void seatalot()
  {
    int m;

      for(m=1; m<=9; m++)
    {
        printf(" %dA  %dB    %dC  %dD\n",m,m,m,m);
    }
     for(m=10; m<=15; m++)
    {
       printf("%dA %dB    %dC %dD\n",m,m,m,m);
    }

     printf("16A 16B 16C 16D 16E\n");

  }


void prnttkt(int s1,int s2,int s3,int s4)
  {
     printf("_____\n");
     printf("|********* Welcome to MYRTC *********|\n");
     printf("|Departure:        Arrival:       |\n");
     printf("|From:          To:           |\n");
     printf("|Name     :Age :Gender :Seat No. :   |\n");
     printf("|        :   :    :    :  |\n");
     printf("|        :   :    :    :  |\n");
     printf("|        :   :    :    :  |\n");
     printf("|        :   :    :    :  |\n");
     printf("|_____|\n");
  }

  void stickets()
   {
```

```c
int t,d;
char* type1;
int f,timing;
char* fr;
char* to;
char* ti;
printf("Please enter carefully else you need to start the process again all over!!\n");
printf("1.passenger\n2.Express\n3.Deluxe\n4.Super Deluxe\n");
printf("Enter the bus type:\n");
scanf("%d",&t);
switch(t)
{
    case 1:
        type1="passenger";
        break;
    case 2:
        type1="Express";
        break;
    case 3:
        type1="Deluxe";
        break;
    case 4:
        type1="SuperDeluxe";
        break;
    default:
        {
            printf("Error\n");
        }
        break;
}
printf("-------------------------------------------------------------\n");
    printf("From:\n1.Hyderabad\n2.Bengaluru\n3.Chennai\n");
    scanf("%d",&f);
    switch(f)
    {
     case 1:
     {
        fr="Hyderabad";


        printf("TO:\n1.Bengaluru\n2.Chennai\n");
        scanf("%d",&d);
        switch(d)
        {
        case 1:
```

```c
        {
          to="Bengaluru";
          printf("Enter your choice:\n 1.4:00 2.6:00 3.18:45 4.22:30 \n");
          scanf("%d",&timing);
          switch(timing)
          {
          case 1 :
           {
            ti="4:00";
            break;
           }

          case 2:
           {
              ti="6:00";
              break;
           }
          case 3:
           {
              ti="18:45";
              break;
           }
          case 4:
           {
              ti="22:30";
              break;
           }

          }
        }
      break;
    case 2:
     to="Chennai";
        printf("Enter your choice: \n1.6:00 2.8:00 3.17:45 4.19:30\n ");
        scanf("%d",&timing);
        switch(timing)
        {
        case 1 :
         {
          ti="6:00";
          break;
         }

        case 2:
         {
```

```c
            ti="8:00";
            break;
         }
        case 3:
         {
            ti="17:45";
            break;
         }
        case 4:
         {
            ti="19:30";
            break;
         }


        }
     break;
   }

   break;
}
case 2:
{
 fr="Bengaluru";

  printf("TO:\n1.Hyderabad\n2.Chennai\n");
  scanf("%d",&d);
  switch(d)
  {
  case 1:
   to="Hyderabad";
      printf("Enter your choice:\n 1.6:30  2.10:45 3.14:50  4.20:25 \n ");
      scanf("%d",&timing);
      switch(timing)
      {
      case 1 :
       {
        ti="6:30";
        break;
       }

      case 2:
       {
          ti="10:45";
          break;
       }
```

```c
                case 3:
                 {
                    ti="14:50";
                     break;
                 }
                case 4:
                 {
                    ti="20:25";
                     break;
                 }


                 }
     break;
    case 2:
    {
        to="Chennai";
     printf("Enter your choice:\n 4:30  6:45  13:50  21:25  \n");
        scanf("%d",&timing);
        switch(timing)
        {
        case 1 :
         {
          ti="4:30";
           break;
         }

            case 2:
             {
                ti="6:45";
                 break;
             }
            case 3:
             {
                ti="13:50";
                 break;
             }
            case 4:
             {
                ti="21:25";
                 break;
             }


             }
    }
      break;
```

```c
            }
        break;
    }
case 3:
{
    fr="Chennai";

    printf("TO:\n1.Bengaluru\n2.Hyderabad\n");
    scanf("%d",&d);
    switch(d)
    {
    case 1:
     {
        to="Bengaluru";
        printf("Enter your choice:\n   1.5:00  2.9:00  3.18:35  4.20:55 \n ");
         scanf("%d",&timing);
         switch(timing)
         {
         case 1 :
          {
           ti="5:00";
           break;
          }

         case 2:
          {
             ti="9:00";
             break;
          }
         case 3:
          {
             ti="18:35";
             break;
          }
         case 4:
          {
             ti="20:55";
             break;
          }

         }
     }
     break;
    case 2:
     {
```

```c
                to="Hyderabad";
                printf("Enter your choice:\n  1.5:30  2.10:50 3.17:35  4.19:55 \n ");
                 scanf("%d",&timing);
                 switch(timing)
                 {
                 case 1 :
                  {
                   ti="5:30";
                    break;
                   }

                   case 2:
                    {
                       ti="10:50";
                       break;
                     }
                   case 3:
                    {
                       ti="17:35";
                       break;
                     }
                   case 4:
                    {
                       ti="19:55";
                       break;
                     }

                     }
                }
                 break;
              }
             break;
            }
              default:
               {
                  printf("Enter a valid option\n");
               }
            }
           printf(" _____ \n");
           printf("|Seats available  |\n");
           printf("|_____|\n");
            end1();

}
```

```c
void btickets()
{
    int f,t,d,timing;
    char* type1;
    char* fr;
    char* to;
    char* ti;

    printf("------------------------------------------------------------\n");
        printf("1.passenger\n2.Express\n3.Deluxe\n4.Super Deluxe\n");
        printf("Enter the bus type:\n");
        scanf("%d",&t);
        switch(t)
        {
            case 1:
                type1="passenger";
                break;
            case 2:
                type1="Express";
                break;
            case 3:
                type1="Deluxe";
                break;
            case 4:
                type1="SuperDeluxe";
                break;
            default:
                {
                    printf("Error\n");
                }
        }

        //from
    printf("------------------------------------------------------------\n");
        printf("From:\n1.Hyderabad\n2.Bengaluru\n3.Chennai\n");
        scanf("%d",&f);
        switch(f)
        {
         case 1:
         {
            fr="Hyderabad";

            printf("TO:\n1.Bengaluru\n2.Chennai\n");
            scanf("%d",&d);
```

```c
switch(d)
{
case 1:
 {
    to="Bengaluru";
     printf("Enter your choice: 1.4:00 2.6:00 3.18:45 4.22:30 ");
     scanf("%d",&timing);
     switch(timing)
     {
     case 1 :
      {
       ti="4:00";
       break;
      }

     case 2:
      {
         ti="6:00";
         break;
      }
     case 3:
      {
         ti="18:45";
         break;
      }
     case 4:
      {
         ti="22:30";
         break;
      }

     }
 }
 break;
case 2:
 to="CHennai";
    printf("Enter your choice: 1.6:00 2.8:00 3.17:45 4.19:30 ");
     scanf("%d",&timing);
     switch(timing)
     {
     case 1 :
      {
       ti="6:00";
       break;
      }
```

```c
        case 2:
         {
            ti="8:00";
            break;
         }
        case 3:
         {
            ti="17:45";
            break;
         }
        case 4:
         {
            ti="19:30";
            break;
         }

         }
     break;
   }

   break;
}
case 2:
{
  fr="Bengaluru";

  printf("TO:\n1.Hyderabad\n2.Chennai\n");
  scanf("%d",&d);
  switch(d)
  {
  case 1:
   to="Hyderabad";
      printf("Enter your choice: 1.6:30  2.10:45 3.14:50  4.20:25  ");
      scanf("%d",&timing);
      switch(timing)
      {
      case 1 :
       {
        ti="6:30";
        break;
       }

      case 2:
       {
```

```c
              ti="10:45";
              break;
          }
      case 3:
        {
              ti="14:50";
              break;
          }
      case 4:
        {
              ti="20:25";
              break;
          }


          }
  break;
case 2:
 {
      to="Chennai";
 printf("Enter your choice: 4:30  6:45  13:50  21:25  ");
      scanf("%d",&timing);
      switch(timing)
      {
      case 1 :
       {
        ti="4:30";
        break;
        }

      case 2:
        {
              ti="6:45";
              break;
          }
      case 3:
        {
              ti="13:50";
              break;
          }
      case 4:
        {
              ti="21:25";
              break;
          }
```

```c
      }
    break;
  }
  break;
}
case 3:
{
  fr="Chennai";

  printf("TO:\n1.Bengaluru\n2.Hyderabad\n");
  scanf("%d",&d);
  switch(d)
  {
  case 1:
   {
      to="Bengaluru";
      printf("Enter your choice:   1.5:00  2.9:00  3.18:35  4.20:55  ");
       scanf("%d",&timing);
       switch(timing)
       {
       case 1 :
        {
         ti="5:00";
          break;
         }

        case 2:
         {
            ti="9:00";
            break;
          }
        case 3:
         {
            ti="18:35";
            break;
          }
        case 4:
         {
            ti="20:55";
            break;
          }

         }
     }
    break;
```

```c
        case 2:
         {
            to="Hyderabad";
            printf("Enter your choice:  1.5:30  2.10:50 3.17:35  4.19:55  ");
            scanf("%d",&timing);
            switch(timing)
            {
            case 1 :
             {
              ti="5:30";
              break;
             }

            case 2:
             {
                ti="10:50";
                break;
             }
            case 3:
             {
                ti="17:35";
                break;
             }
            case 4:
             {
                ti="19:55";
                break;
             }

             }
          }
          break;
        }
        break;
      }
        default:
         {
            printf("Enter a valid option");
         }
    end1();
   }


   }
printf("-------------------------------------------------------------\n");
static int n,g,a1,a2,a3,a4,k;
```

```c
                                            static                char
n1[15],n2[15],n3[15],n4[15],male,female,s1[3],s2[3],s3[3],s4[3],g1[7],g2[7],g3[7],g4[7];
char* COUPON;
printf("\nNo.of passengers:(max 4)\n");
scanf("%d",&n);
printf("   BUS VEIW  \n");
seatalot();
printf("\nEnter the details of the passengers:\n");
switch(n)
{
 case 4:
  printf("\nName=");
  scanf("%15s",&n4);
  FLUSH;
  printf("\nAge=");
 scanf("%d",&a4);
  printf("\nGender:");
 scanf("%7s",&g4);
 FLUSH;
  printf("\nseat no.:");
 scanf("%3s",&s4);
 FLUSH;
 case 3:
  printf("\nName:");
  scanf("%15s",&n3);
  FLUSH;
  printf("\nAge=");
  scanf("%d",&a3);
  printf("\nGender:");
  scanf("%7s",&g3);
  FLUSH;
   printf("\nSeat No.:");
 scanf("%3s",&s3);
 FLUSH;

 case 2:
  printf("\nName:");
  scanf("%15s",&n2);
  FLUSH;
  printf("%s",n2);
  printf("\nAge=");
   scanf("%d",&a2);
   printf("\nGender:");
   scanf("%7s",&g2);
   FLUSH;
```

```c
      printf("\nSeat no.:");
    scanf("%3s",&s2);
    FLUSH;

    case 1:
     printf("\nName:");
     scanf("%15s",&n1);
     FLUSH;

     printf("\nAge=");
      scanf("%d",&a1);
      printf("\nGender:");
      scanf("%7s",&g1);
      FLUSH;
       printf("\nseat no.:");
      scanf("%7s",&s1);
      FLUSH;

}

printf("\nDo you have any coupons:1.yes 2.No\n");
scanf("%d",&t);
printf("Enter your coupon:");
scanf("%10s",&COUPON);
 FLUSH;
 switch(t)
 {
 case 1:
  {
     if(COUPON=="FIRST")
    price=70*n*t*200/100;
  else if(COUPON=="SUPERSAVE")
   price=n*t*200-100;
  else if(COUPON=="10BY50")
    price=n*t*200*50/100;
 else
  price=n*t*200;
 }
 break;
 case 2:
   price=n*t*200;
   break;
 }
 {
  printf("--------------------------------------------------------------------------\n");
```

```c
    printf("_____\n");
    printf("|**********      MYRTC     **********|\n");
    printf("|Departure:%-3s                |\n",ti);
    printf("|From:%-15s  To:%-12s  |\n",fr,to);
    printf("|Bus type:%-15s          |\n",type1);
    printf("|Name        :Age :Gender :Seat No.   |\n");
    printf("|%-15s:%-3d :%-7s:%-3s        |\n",n1,a1,g1,s1);
    printf("|%-15s:%-3d :%-7s:%-3s        |\n",n2,a2,g2,s2);
    printf("|%-15s:%-3d :%-7s:%-3s        |\n",n3,a3,g3,s3);
    printf("|%-15s:%-3d :%-7s:%-3s        |\n",n4,a4,g4,s4);
    printf("|Total fare:%5d Rupees            |\n",price);
    printf("|_____|\n");
    printf("---------------------------------------------------------------------------\n");
   }

  end1();
 }

void sbusdet()
 {
   printf("BUS   |||||||||TIMINGS||||||||||||||fares pas  exp  del sdel\n");
   printf("HYD-BEN : 4:00  6:00  18:45 22:30      200  400 600 800 \n");
   printf("HYD-CHN : 6:00  8:00  17:45 19:30      200  400 600 800 \n");
   printf("BEN-HYD : 6:30  10:45 14:50 20:25       200  400 600 800 \n");
   printf("BEN-CHN : 4:30  6:45  13:50 21:25      200  400 600 800 \n");
   printf("CHN-BEN : 5:00  9:00  18:35 20:55      200  400 600 800 \n");
   printf("CHN-HYD : 5:30  10:50 17:35 19:55       200  400 600 800 \n");
   printf("HYD:HYderabad\nBEN:bengaluru\nCHN:Chennai\n");
   printf("pas:Passenger   exp:express\n");
   printf("del:Deluxe     sdel:super Deluxe\n ");
   end1();
 }
void coup_ofers()
 {
    printf("------------Coupons & Offers-------------");
    printf("COUPON CODE: SUPERSAVE\n   Get upto 200 off  \n");
    printf("COUPON CODE: FIRST   \n   30% discount on your first online booking\n");
    printf("COUPON CODE: 10BY50  \n   50% discount on your 10th ride\n");
    end1();
 }
 void home()
  {
   int i;
   printf("*********Welcome to TSRTC**********");
```

```c
    printf("\n      ( 1.Search tickets)\n       2.Book tickets\n       3.Show bus details\n (4.Cancellation)\n   (5.Tracking)\n   6.Coupons and offers\n ");
    printf("Enter your choice:\n");
    scanf("%d",&i);
     switch(i)
  {
   case 1:
      stickets();
      break;
   case 2:
      btickets();
      break;
   case 3:
      sbusdet();
      break;
   case 4:
      cancel();
      break;
   case 5:
       trak();
       break;
   case 6:
      coup_ofers();
   }

  }

void end1()
 {
    int h;
    printf("1.Home\n2.Exit");
    scanf("%d",&h);
    if(h==1)
    {
      home();
    }
    else
      printf("Exit\n");
 }
void trak()
 {
    int f,d,timing;
    char* fr,*to,*ti;
       printf("From:\n1.Hyderabad\n2.Bengaluru\n3.Chennai\n");
        scanf("%d",&f);
```

```c
switch(f)
{
 case 1:
{
   fr="Hyderabad";


   printf("TO:\n1.Bengaluru\n2.Chennai\n");
   scanf("%d",&d);
   switch(d)
   {
   case 1:
    {
       to="Bengaluru";
        printf("Enter your choice: 1.4:00 2.6:00 3.18:45 4.22:30 ");
        scanf("%d",&timing);
        switch(timing)
        {
        case 1 :
         {
          ti="4:00";


         }

        case 2:
         {
            ti="6:00";


         }
        case 3:
         {
            ti="18:45";


         }
        case 4:
         {
            ti="22:30";


         }
         printf("The present location of the bus is Thimapur");


        }
     }
    break;
   case 2:
```

```c
        to="CHennai";
            printf("Enter your choice: 1.6:00 2.8:00 3.17:45 4.19:30 ");
             scanf("%d",&timing);
             switch(timing)
             {
             case 1 :
              {
               ti="6:00";


              }

             case 2:
              {
                 ti="8:00";


              }
             case 3:
              {
                 ti="17:45";


              }
             case 4:
              {
                 ti="19:30";


              }
printf("The present location of the bus is Miryalguda");
              }
          break;
        }

        break;
}
case 2:
{
  fr="Bengaluru";

   printf("TO:\n1.Hyderabad\n2.Chennai\n");
   scanf("%d",&d);
   switch(d)
   {
   case 1:
    to="Hyderabad";
        printf("Enter your choice: 1.6:30  2.10:45 3.14:50  4.20:25  ");
         scanf("%d",&timing);
```

```c
        switch(timing)
        {
        case 1 :
         {
          ti="6:30";


         }


        case 2:
         {
            ti="10:45";


         }
        case 3:
         {
            ti="14:50";
                    }
        case 4:
         {
            ti="20:25";


         }
         printf("The present location of the bus is Thimapur");

        }
  break;
 case 2:
  to="Chennai";
 printf("Enter your choice: 4:30  6:45  13:50  21:25  ");
        scanf("%d",&timing);
        switch(timing)
        {
        case 1 :
         {
          ti="4:30";
         }

        case 2:
         {
            ti="6:45";


         }
        case 3:
         {
            ti="13:50";
```

```c
      }
        case 4:
         {
            ti="21:25";


         }


        }
        printf("The bus reached the destination");
     break;
   }
   break;
}
case 3:
{
   fr="Chennai";

   printf("TO:\n1.Bengaluru\n2.Hyderabad\n");
   scanf("%d",&d);
   switch(d)
   {
   case 1:
    {
       to="Bengaluru";
       printf("Enter your choice:   1.5:00  2.9:00  3.18:35  4.20:55  ");
        scanf("%d",&timing);
        switch(timing)
        {
        case 1 :
         {
          ti="5:00";


         }

         case 2:
          {
             ti="9:00";
           }
         case 3:
          {
             ti="18:35";
           }
         case 4:
          {
```
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```c
                 ti="20:55";
              }

            }
            printf("The present location of the bus is Vellore ");
        }
        break;
    case 2:
        {
            to="Hyderabad";
            printf("Enter your choice:  1.5:30  2.10:50 3.17:35  4.19:55  ");
             scanf("%d",&timing);
             switch(timing)
             {
             case 1 :
              {
               ti="5:30";
              }

             case 2:
              {
                 ti="10:50";
              }
             case 3:
              {
                 ti="17:35";
              }
             case 4:
              {
                 ti="19:55";
              }
        printf("The bus has arrived to the destination");
             }
         }
         break;
     }
    break;
}

    default:
    {
        printf("Enter a valid option ");
    }
```

```c
        }
  end1();
 }

void cancel()
{
  int f,t,d,timing,price;
    char* type1;
    char* fr;
    char* to;
    char* ti;

    printf("-----------------------------------------------------------\n");
      printf("1.passenger\n2.Express\n3.Deluxe\n4.Super Deluxe\n");
      printf("Enter the bus type:\n");
      scanf("%d",&t);
      switch(t)
      {
        case 1:
           type1="passenger";
           break;
        case 2:
           type1="Express";
           break;
        case 3:
           type1="Deluxe";
           break;
        case 4:
           type1="SuperDeluxe";
           break;
        default:
           {
              printf("Error\n");
           }
      }

        //from
    printf("-----------------------------------------------------------\n");
        printf("From:\n1.Hyderabad\n2.Bengaluru\n3.Chennai\n");
        scanf("%d",&f);
        switch(f)
        {
         case 1:
         {
           fr="Hyderabad";
```

```c
printf("TO:\n1.Bengaluru\n2.Chennai\n");
scanf("%d",&d);
switch(d)
{
case 1:
 {
    to="Bengaluru";
     printf("Enter your choice: 1.4:00 2.6:00 3.18:45 4.22:30 ");
     scanf("%d",&timing);
     switch(timing)
     {
     case 1 :
      {
       ti="4:00";
       break;
      }

     case 2:
      {
         ti="6:00";
         break;
      }
     case 3:
      {
         ti="18:45";
         break;
      }
     case 4:
      {
         ti="22:30";
         break;
      }

     }
 }
 break;
case 2:
 to="CHennai";
    printf("Enter your choice: 1.6:00 2.8:00 3.17:45 4.19:30 ");
     scanf("%d",&timing);
     switch(timing)
     {
     case 1 :
```

```c
          {
           ti="6:00";
            break;
           }

          case 2:
           {
              ti="8:00";
              break;
           }
          case 3:
           {
              ti="17:45";
              break;
           }
          case 4:
           {
              ti="19:30";
              break;
           }

           }
      break;
    }

    break;
}
case 2:
{
 fr="Bengaluru";

  printf("TO:\n1.Hyderabad\n2.Chennai\n");
  scanf("%d",&d);
  switch(d)
  {
  case 1:
   to="Hyderabad";
      printf("Enter your choice: 1.6:30  2.10:45 3.14:50  4.20:25  ");
      scanf("%d",&timing);
      switch(timing)
      {
      case 1 :
       {
        ti="6:30";
        break;
```

```c
       }

       case 2:
        {
           ti="10:45";
           break;
        }
       case 3:
        {
           ti="14:50";
           break;
        }
       case 4:
        {
           ti="20:25";
           break;
        }

       }
 break;
case 2:
 to="Chennai";
 printf("Enter your choice: 4:30  6:45  13:50  21:25  ");
     scanf("%d",&timing);
     switch(timing)
     {
     case 1 :
      {
       ti="4:30";
       break;
      }

     case 2:
      {
         ti="6:45";
         break;
      }
     case 3:
      {
         ti="13:50";
         break;
      }
     case 4:
      {
         ti="21:25";
```

```c
            break;
          }

        }
      break;
    }
   break;
}
case 3:
{
   fr="Chennai";

   printf("TO:\n1.Bengaluru\n2.Hyderabad\n");
   scanf("%d",&d);
   switch(d)
   {
   case 1:
    {
       to="Bengaluru";
       printf("Enter your choice:   1.5:00  2.9:00  3.18:35  4.20:55  ");
        scanf("%d",&timing);
        switch(timing)
        {
        case 1 :
         {
          ti="5:00";
          break;
         }

         case 2:
          {
             ti="9:00";
             break;
          }
         case 3:
          {
             ti="18:35";
             break;
          }
         case 4:
          {
             ti="20:55";
             break;
          }
```

```c
        }
      }
     break;
    case 2:
     {
        to="Hyderabad";
        printf("Enter your choice:  1.5:30  2.10:50 3.17:35  4.19:55  ");
         scanf("%d",&timing);
         switch(timing)
         {
         case 1 :
          {
           ti="5:30";
           break;
          }

          case 2:
           {
              ti="10:50";
              break;
           }
          case 3:
           {
              ti="17:35";
              break;
           }
          case 4:
           {
              ti="19:55";
              break;
           }

          }
      }
     break;
   }
   break;
  }
    default:
     {
        printf("Enter a valid option");
        cancel();
     }

end1();
```

```c
    }
    printf("-------------------------------------------------------------\n");
    static int n,g,a1,a2,a3,a4,k;
                                                        static            char
n1[15],n2[15],n3[15],n4[15],male,female,s1[3],s2[3],s3[3],s4[3],g1[7],g2[7],g3[7],g4[7];

    printf("\nNo.of passengers:(max 4)\n");
    scanf("%d",&n);
    printf("\nEnter the details of the passengers:\n");
    switch(n)
    {
     case 4:
      printf("\nName=");
      scanf("%15s",&n4);
      FLUSH;
      printf("\nAge=");
     scanf("%d",&a4);
      printf("\nGender:");
     scanf("%7s",&g4);
      FLUSH;
      printf("\nseat no.:");
     scanf("%3s",&s4);
      FLUSH;
     case 3:
      printf("\nName:");
      scanf("%15s",&n3);
      FLUSH;
      printf("\nAge=");
      scanf("%d",&a3);
      printf("\nGender:");
      scanf("%7s",&g3);
      FLUSH;
       printf("\nSeat No.:");
      scanf("%3s",&s3);
      FLUSH;

     case 2:
      printf("\nName:");
      scanf("%15s",&n2);
      FLUSH;
      printf("%s",n2);
      printf("\nAge=");
       scanf("%d",&a2);
       printf("\nGender:");
       scanf("%7s",&g2);
```

```c
       FLUSH;
        printf("\nSeat no.:");
      scanf("%3s",&s2);
      FLUSH;

      case 1:
       printf("\nName:");
       scanf("%15s",&n1);
       FLUSH;

       printf("\nAge=");
        scanf("%d",&a1);
        printf("\nGender:");
        scanf("%7s",&g1);
        FLUSH;
         printf("\nseat no.:");
        scanf("%7s",&s1);
        FLUSH;

   }
 price=n*t*200;
 printf("\n--------------------------------------------------\n");
   printf("your  tickets  cost  %d  -  cancellation  charges  60Rs=%d  is  refunded  to  your
account\n",price,price-60);
 printf("Your tickets have been canceled sucessfully-----------------------------\n");
 end1();
}
```

Output   Screens   :

```
----------------------------------------------------------
*********Welcome to TSRTC**********
 1.Search tickets
     2.Book tickets
     3.Show bus details
     4.Cancellation
   5.Tracking
     6.Coupons and offers
 Enter your choice:
1
Please enter carefully else you need to start the process again all over!!
1.passenger
2.Express
3.Deluxe
4.Super Deluxe
Enter the bus type:
1
----------------------------------------------------
From:
1.Hyderabad
2.Bengaluru
3.Chennai
1
TO:
1.Bengaluru
2.Chennai
1
Enter your choice:
 1.4:00 2.6:00 3.18:45 4.22:30
1
 _____
|Seats available  |
|_____|
1.Home
2.Exit
```

C:\Users\Subhashini\Desktop\sivani\project\RTC\bin\Debug\RTC.exe

```
1.Home
2.Exit1
*********Welcome to TSRTC**********
     ( 1.Search tickets)
     2.Book tickets
     3.Show bus details
     (4.Cancellation)
   (5.Tracking)
     6.Coupons and offers
  Enter your choice:
2
--------------------------------------------------------
1.passenger
2.Express
3.Deluxe
4.Super Deluxe
Enter the bus type:
1
--------------------------------------------------------
From:
1.Hyderabad
2.Bengaluru
3.Chennai
1
TO:
1.Bengaluru
2.Chennai
1
Enter your choice: 1.4:00 2.6:00 3.18:45 4.22:30 3
--------------------------------------------------------
No.of passengers:(max 4)
1
    BUS VEIW
  1A   1B       1C   1D
  2A   2B       2C   2D
  3A   3B       3C   3D
  4A   4B       4C   4D
  5A   5B       5C   5D
  6A   6B       6C   6D
  7A   7B       7C   7D
  8A   8B       8C   8D
  9A   9B       9C   9D
10A  10B      10C  10D
11A  11B      11C  11D
12A  12B      12C  12D
13A  13B      13C  13D
14A  14B      14C  14D
15A  15B      15C  15D
16A  16B  16C  16D  16E
```

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```
Do you have any coupons:1.yes 2.No
2
--------------------------------------------------------------------------------

    _____
   |***********        MYRTC        ***********|
   |Departure:18:45                            |
   |From:Hyderabad          To:Bengaluru       |
   |Bus type:passenger                         |
   |Name            :Age :Gender :Seat No.     |
   |SIVANI          :17  :F      :1A           |
   |                :0   :       :             |
   |                :0   :       :             |
   |                :0   :       :             |
   |Total fare:   400 Rupees                   |
   |                                           |
--------------------------------------------------------------------------------
1.Home
2.Exit1
**********Welcome to TSRTC**********
    ( 1.Search tickets)
     2.Book tickets
     3.Show bus details
     (4.Cancellation)
    (5.Tracking)
     6.Coupons and offers
 Enter your choice:
3
BUS      |||||||||TIMINGS|||||||||||||fares  pas   exp   del   sdel
HYD-BEN :   4:00   6:00  18:45  22:30       200   400   600   800
HYD-CHN :   6:00   8:00  17:45  19:30       200   400   600   800
BEN-HYD :   6:30  10:45 14:50  20:25        200   400   600   800
BEN-CHN :   4:30   6:45  13:50  21:25       200   400   600   800
CHN-BEN :   5:00   9:00  18:35  20:55       200   400   600   800
CHN-HYD :   5:30  10:50 17:35  19:55        200   400   600   800
HYD:HYderabad
BEN:bengaluru
CHN:Chennai
pas:Passenger      exp:express
del:Deluxe         sdel:super Deluxe
 1.Home
2.Exit1
**********Welcome to TSRTC**********
    ( 1.Search tickets)
     2.Book tickets
     3.Show bus details
     (4.Cancellation)
    (5.Tracking)
     6.Coupons and offers
 Enter your choice:
4
```

Type here to search

```
C:\Users\Subhashini\Desktop\sivani\project\RTC\bin\Debug\RTC.exe
del:Deluxe        sdel:super Deluxe
 1.Home
2.Exit1
**********Welcome to TSRTC**********
    ( 1.Search tickets)
     2.Book tickets
     3.Show bus details
     (4.Cancellation)
     (5.Tracking)
     6.Coupons and offers
 Enter your choice:
4
------------------------------------------------------------
1.passenger
2.Express
3.Deluxe
4.Super Deluxe
Enter the bus type:
2
------------------------------------------------------------
From:
1.Hyderabad
2.Bengaluru
3.Chennai
1
TO:
1.Bengaluru
2.Chennai
1
Enter your choice: 1.4:00 2.6:00 3.18:45 4.22:30 1
------------------------------------------------------------

No.of passengers:(max 4)
1

Enter the details of the passengers:

Name:sivani

Age=17

Gender:F

seat no.:1A

--------------------------------------------------
your tickets cost 400 - cancellation charges 60Rs=340 is refunded to your account
Your tickets have been canceled sucessfully---------------------------
1.Home
2.Exit
```

Conclusion :

By doing this project our team learned a lot about programming,solving a real life situation.

It was a great opportunity to do this project it made extend our limits of coding and programming and to learn how well things to be organised in a project that it gets a good shape and content.The project outcome was better than we expected and it is almost completed and only left with some minor fixes.