*//---------------------------------------header file start-----------------------------------------*

*SOURCE CODE*

*#include<stdio.h>*

*#include<stdlib.h>*

*#include<conio.h>*

*#include<time.h>*

*#include<string.h>*

*//---------------------------------------header file close-------------------------------------------*

*//---------------------------------------user define function start----------------------------------*

*void viewinfo();*

*void bookticket();*

*void cancelticket();*

*void admin();*

*void password();*

*void viewpassenger();*

*void addtrain();*

*void dlttrain();*

*void awrite();*

*void aread();*

*void bookticket\_write();*

*void viewpassengers\_read();*

*//-----------------------------------------user define function close-----------------------------------*

*//-----------------------------------------structure start----------------------------------------------*

*struct adddata*

*{*

*char si[10];*

*char train\_number[10];*

*char train\_name[20];*

*char start[10];*

*char destination[10];*

*char price[10];*

*int seat;*

*char time[10];*

*} add[200];*

*struct bookticket*

*{*

*char train\_number[20];*

*char name[20];*

*char phone[20];*

*char date[20];*

*int seat;*

*}book[200];*

*//---------------------------------------structure close----------------------------------------------*

*//---------------------------------------global variable----------------------------------------------*

*int k=0,u=0;*

*char trn\_nmbr[100],name[100],phn[100];*

*//---------------------------------------main function start------------------------------------------*

*int main()*

*{*

*aread();*

*viewpassengers\_read();*

*system("COLOR 0f");*

*int ch;*

*time\_t currentTime;*

*time(&currentTime);*

*printf("\n\t\t\t %s\n",ctime(&currentTime));*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*printf("\t\t\t\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\n");*

*printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*printf("\n\t\t\t<<<<<<<<<<WELCOME USERS>>>>>>>>>>\n");*

*printf("\n\n\t\t\t\t MENU\n");*

*printf("\t\t\t \*\*\*\*\*\*");*

*printf("\n\t\t\t[1] VIEW INFORMATION\n");*

*printf("\n\t\t\t[2] BOOK TICKET\n");*

*printf("\n\t\t\t[3] CANCEL TICKET\n");*

*printf("\n\t\t\t[4] ADMIN");*

*printf("\n\n\t\t\t[5] EXIT\n");*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\tENTER YOUR CHOICE: ");*

*scanf("%d",&ch);*

*switch(ch)*

*{*

*case 1:*

*viewinfo();*

*break;*

*case 2:*

*bookticket();*

*break;*

*case 3:*

*cancelticket();*

*break;*

*case 4:*

*password();*

*break;*

*case 5:*

*system("cls");*

*printf("\n\t\t\t =========================================\n");*

*printf("\t\t\t \*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM MADE BY PRASHANT SAINI\*\*\*\*\*\*\*\n");*

*printf("\t\t\t ===============================================\n");*

*getch();*

*exit(0);*

*break;*

*default:*

*system("cls");*

*printf("\n\t\t\t==============================================\n");*

*printf("\t\t\t \*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\n");*

*printf("\t\t\t ==============================================\n");*

*printf("\n\n\t\t\t<<<<<<<<YOU ENTERED WRONG CHOICE>>>>>>>>\n");*

*printf("\t\t\t<<<<<<<<PLEASE ENTER RIGHT THING>>>>>>>>\n");*

*getch();*

*system("cls");*

*main();*

*}*

*return 0;*

*}*

*//---------------------------------------main function close--------------------------------------------------*

*//---------------------------------------book ticket function-----------------------------------------------*

*void bookticket()*

*{*

*int c,j,n,i,found=-1;*

*char v,train\_number[10];*

*system ("cls");*

*aread();*

*printf("\n\n\t\t\t============================================");*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\*\*\*\n");*

*printf("\t\t\t==================================================");*

*printf("\n\n\t\t\thow many ticket do you want to buy: ");*

*scanf("%d",&n);*

*for(j=u;j<u+n;j++)*

*{*

*printf("\n\n\t\t\tEnter train number: ");*

*scanf("%s", book[j].train\_number);*

*for(i=0;i<k;i++)*

*{*

*if(strcmp(book[j].train\_number,add[i].train\_number)==0)*

*{*

*if(add[i].seat==0)*

*{*

*printf("\n\n\t\t\tnot available seat");*

*getch();*

*system("cls");*

*main();*

*}*

*else*

*{*

*found=1;*

*printf("\n\t\t\tenter book %d no ticket: ",j+1);*

*printf("\n\t\t\tenter date: ");*

*scanf("%s",book[j].date);*

*printf("\n\t\t\tenter your name: ");*

*scanf("%s",book[j].name);*

*printf("\n\t\t\tenter your phone number: ");*

*scanf("%s",book[j].phone);*

*printf("\n\t\t\tseat number : %d",add[i].seat );*

*book[j].seat=add[i].seat;*

*bookticket\_write();*

*add[i].seat--;*

*awrite();*

*}*

*}*

*}*

*if(found==-1)*

*{*

*printf("\n\n\t\t\ttrain not found!!!");*

*getch();*

*system("cls");*

*main();*

*}*

*}*

*u=j;*

*bookticket\_write();*

*printf("\n\n\t\t\tenter '1' for main menu & press any key to exit: ");*

*scanf("%d",&c);*

*if(c==1)*

*{*

*system("cls");*

*main();*

*}*

*if(c!=1)*

*{*

*exit;*

*}*

*}*

*//---------------------------------------cancel ticket function---------------------------------------------*

*void cancelticket()*

*{*

*viewpassengers\_read();*

*char pnnmbr[100];*

*int location = -1,e;*

*int location = -1,e;*

*printf ("\n\n\t\t\tenter phone number: ");*

*scanf ("%s",pnnmbr);*

*for (e=0;e<u;e++)*

*{*

*if (strcmp(pnnmbr,book[e].phone)==0)*

*{*

*location=e;*

*break;*

*}*

*}*

*if (location==-1)*

*{*

*printf ("\n\n\t\t\t<<<<<<<<<<<<<<Data Not Found>>>>>>>>>>>>>>>>> \n");*

*getch();*

*system("cls");*

*main();*

*}*

*else*

*{*

*for (e=location;e<u;e++)*

*{*

*strcpy(book[e].date,book[e+1].date);*

*strcpy(book[e].train\_number,book[e+1].train\_number);*

*strcpy(book[e].name,book[e+1].name);*

*strcpy(book[e].phone,book[e+1].phone);*

*bookticket\_write();*

*}*

*u--;*

*bookticket\_write();*

*printf("\n\n\t\t\t<<<<<<<<<<<<<<<ticket cancelled successfully>>>>>>>>>>>>");*

*getch();*

*system("cls");*

*main();*

*}*

*}*

*//-------------------------------------admin portal function----------------------------------------*

*void admin()*

*{*

*int chhh;*

*system("cls");*

*printf("\n ==================================================================");*

*printf("\n \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n ====================================================================");*

*printf("\n\n");*

*printf(" <<<<<<<<<<<<<<<WELCOME\_ADMIN>>>>>>>>>>>>>>>\n");*

*printf("\n\n");*

*printf(" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*printf(" || CHOOSE YOUR OPERATION ||\n");*

*printf(" ||--------------------------------||\n");*

*printf(" || [1] VIEW PASSENGERS ||\n");*

*printf(" || [2] ADD TRAIN ||\n");*

*printf(" || [3] DELETE TRAIN ||\n");*

*printf(" || [4] BACK ||\n");*

*printf(" || ||\n");*

*printf(" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");*

*printf(" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*printf("\n\t\tENTER YOUR CHOICE: ");*

*scanf("%d",&chhh);*

*switch(chhh)*

*{*

*case 1:*

*viewpassenger();*

*break;*

*case 2:*

*addtrain();*

*break;*

*case 3:*

*dlttrain();*

*break;*

*case 4:*

*system("cls");*

*getch();*

*main();*

*break;*

*default:*

*getch();*

*printf("\n\t\t\tyou entered wrong KEY!!!!");*

*getch();*

*system("cls");*

*main();*

*}*

*getch();*

*}*

*//-----------------------------password function----------------------------------*

*void password()*

*{*

*int number=1234567;*

*int pass;*

*printf("\n\t\t\tenter password: ");*

*scanf("%d",&pass);*

*if(pass==number)*

*{*

*printf("\n\n\t\t\t<<<<<login successfully>>>>>");*

*getch();*

*system("cls");*

*admin();*

*}*

*else*

*{*

*printf("\n\n\t\t\t\t ERROR!!!!!");*

*printf("\n\n\t\t\t<<<<<<<<wrong password>>>>>>>>");*

*getch();*

*system("cls");*

*main();*

*}*

*}*

*//------------------------------------delete train function----------------------------------------------*

*void dlttrain()*

*{*

*aread();*

*char train[100];*

*int location = -1,f;*

*printf ("\n\n\tenter train number: ");*

*scanf ("%s",train);*

*for (f=0;f<k;f++)*

*{*

*if (strcmp(train,add[f].train\_number)==0)*

*{*

*location=f;*

*break;*

*}*

*}*

*if (location==-1)*

*{*

*printf ("\n\n\t<<<<<<<<<<<<<<Data Not Found>>>>>>>>>>>>>>>>> \n");*

*getch();*

*system("cls");*

*admin();*

*}*

*else*

*{*

*for (f=location;f<k;f++)*

*{*

*strcpy(add[f].si,add[f+1].si);*

*strcpy(add[f].train\_number,add[f+1].train\_number);*

*strcpy(add[f].train\_name,add[f+1].train\_name);*

*strcpy(add[f].start,add[f+1].start);*

*strcpy(add[f].destination,add[f+1].destination);*

*strcpy(add[f].price,add[f+1].price);*

*strcpy(add[f].time,add[f+1].time);*

*awrite();*

*}*

*k--;*

*awrite();*

*printf("\n\n\t<<<<<<<<<<<<<train deleted successfully>>>>>>>>>>>>>");*

*getch();*

*system("cls");*

*system("cls");*

*admin();*

*}*

*}*

*//--------------------------------------view passengers function----------------------------------------*

*void viewpassenger()*

*{*

*int a,j;*

*system("cls");*

*viewpassengers\_read();*

*printf("\n\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\n\t\t\ttrain number\t\tname\t\tphone number\t\tdate\t\tseat\n");*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*for(j=0;j<u;j++)*

*{*

*printf("\n\t\t\t%s\t\t\t%s\t\t%s\t\t%s\t%d",book[j].train\_number,book[j].name,book[j].phone,book[j].date,book[j].seat);*

*book[j].seat++;*

*}*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*printf("\n\n\t\t\tenter '1' for main menu & enter '0' for back: ");*

*scanf("%d",&a);*

*if(a==1)*

*{*

*system("cls");*

*main();*

*}*

*if(a==0)*

*{*

*system("cls");*

*admin();*

*}*

*}*

*//--------------------------------------add train function--------------------------------------------*

*void addtrain()*

*{*

*system("cls");*

*printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\n\t\t\thow many trains do you want to add: ");*

*scanf("%d",&a);*

*for(i=k;i<k+a;i++)*

*{*

*printf("\n\t\t\tenter %d train details: ",i+1);*

*printf("\n\t\t\tenter serial number: ");*

*scanf("%s",add[i].si);*

*printf("\n\t\t\tenter train number: ");*

*scanf("%s",add[i].train\_number);*

*printf("\n\t\t\tenter train name: ");*

*scanf("%s",add[i].train\_name);*

*printf("\n\t\t\tenter start place: ");*

*scanf("%s",add[i].start);*

*printf("\n\t\t\tenter destination place: ");*

*scanf("%s",add[i].destination);*

*printf("\n\t\t\t enter price: ");*

*scanf("%s",add[i].price);*

*printf("\n\t\t\t enter seat: ");*

*scanf("%d", & add[i].seat);*

*printf("\n\t\t\t enter time: ");*

*scanf("%s",add[i].time);*

*}*

*printf("\n\n\t\t\tconfirm train: (y=1/n=0):- ");*

*scanf("%d",&ch);*

*if(ch==1)*

*{*

*awrite();*

*k=i;*

*awrite();*

*system("cls");*

*printf("\n\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\n");*

*printf("\n\t\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t\t\t \*<<<<<train add successfully>>>>>\*");*

*printf("\n\t\t\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*getch();*

*system("cls");*

*main();*

*}*

*if(ch==0)*

*{*

*system("cls");*

*admin();*

*}*

*if((ch!=1)&&(ch!=0))*

*{*

*system("cls");*

*main();*

*}*

*}*

*//-----------------------------------view information function--------------------------------------*

*void viewinfo()*

*{*

*int ch,i;*

*system("cls");*

*aread();*

*printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*RAILWAY RESERVATION SYSTEM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");*

*printf("\n\n\n SI\ttrain number\ttrain name\tstart place\tdestination place\tprice\tseat\ttime\n\n");*

*for(i=0;i<k;i++)*

*{*

*printf(" %s\t%s\t\t%s\t\t%s\t\t%s\t\t\t%s\t%d\t%s\n",add[i].si,add[i].train\_number,add[i].train\_name,add[i].start,add[i].destination,add[i].price,add[i].seat,add[i].time);*

*}*

*printf(" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");*

*printf("\n\t\t\tpress '1' for main menu & press any key for exit: ");*

*scanf("%d",&ch);*

*switch(ch)*

*{*

*case 1:*

*system("cls");*

*main();*

*break;*

*d*

*default:*

*exit(0);*

*}*

*}*

*//------------------------------------------book ticket file start-----------------------------------------*

*void bookticket\_write()*

*{*

*FILE \*booklist;*

*booklist=fopen("booklist.txt","w");*

*fwrite(&book,sizeof(book),1,booklist);*

*fclose(booklist);*

*FILE \*booklistreport;*

*booklistreport=fopen("booklistreport.txt","w");*

*fwrite(&u,sizeof(u),1,booklistreport);*

*fclose(booklistreport);*

*}*

*void viewpassengers\_read()*

*{*

*FILE \*booklist;*

*booklist=fopen("booklist.txt","r");*

*fread(&book,sizeof(book),1,booklist);*

*fclose(booklist);*

*FILE \*booklistreport;*

*booklistreport=fopen("booklistreport.txt","r");*

*fread(&u,sizeof(u),1,booklistreport);*

*fclose(booklistreport);*

*}*

*//-----------------------------------------add train file start---------------------------------------------------*

*void awrite()*

*{*

*FILE \*train\_details;*

*train\_details = fopen("train\_details.txt","w");*

*fwrite(&add,sizeof(add),1,train\_details);*

*fclose(train\_details);*

*FILE \*train\_report;*

*train\_report = fopen("train\_report.txt","w");*

*fwrite(&k,sizeof(k),1,train\_report);*

*fclose(train\_report); void aread()*

*{*

*FILE \*train\_details;*

*train\_details = fopen("train\_details.txt","r");*

*fread(&add,sizeof(add),1,train\_details);*

*fclose(train\_details);*

*FILE \*train\_report;*

*train\_report = fopen("train\_report.txt","r");*

*fread(&k,sizeof(k),1,train\_report);*

*fclose(train\_report);*

*}*

*//----------------------------------------------------file close----------------------------------------------*

*//----------------------------------------------------program close----------------------------------------*

*}*