

Project : AIRLINE BOOKING

```
// Airline ticket project

#include<stdio.h>
#include<string.h>
#include<ctype.h>
#include<time.h>

void book();
void check();
char* options();
int calendar();
void start(){
    start:
    printf("Welcome to The AirLines..!\n");
    printf("\n-----\n");
    printf("Press 1 to BookTickets!\n");
    printf("Press 2 to check Upcoming flights!\n");
    printf("Press 3 to exit...!!\n");
    printf("\n-----\n");
    int a;
    scanf("%d",&a);
    if(a==3){
        printf("Exiting...!!\n");
        return ;
    }
    switch(a){
        case 1:
            book();
            break;
        case 2:
            check();
            break;
        default:
            printf("Please Choose correct option!\n");
            goto start;
            break;
    }
}

int calendar(int mon,int dat){
    int year = 2024;
    struct tm date = {0};
    date.tm_year = year - 1900;
    date.tm_mon = 0;
    date.tm_mday = 1;
    date.tm_mon=mon-1;
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    mktime(&date);
    printf("\n-----\n");
    printf("Sun Mon Tue Wed Thu Fri Sat\n");
    for (int i = 0; i < date.tm_wday; i++) {
        printf("    ");
    }
    int c=0;
    while (date.tm_mon == mon-1) {
        printf("%3d ", date.tm_mday);
        if(date==date.tm_mday){
            c=dat;
        }
        if (date.tm_wday == 6) {
            printf("\n");
        }
        date.tm_mday++;
        mktime(&date);
    }
    printf("\n-----\n");
    return dat;
}

char* options(int a){
    if(a==1){
        return "hyderabad";
    }
    else if(a==2){
        return "banglore";
    }
    else if(a==3){
        return "chennai";
    }
    else if(a==4){
        return "delhi";
    }
    return "NULL";
}

void book(){
    char *source[4]={"hyderabad", "banglore", "chennai","delhi"};
    char *destination[4]={"Hyderabad", "Banglore", "chennai","Delhi"};
    choose:
    printf("\nChoose your Starting Location: \n");
    printf("\n-----\n");
    printf("\n Press 1 for Hyderabad");
    printf("\nPress 2 for Banglore");
    printf("\nPress 3 for chennai");
    printf("\nPress 4 for delhi");
    printf("\n-----\n");
    int a;

```

```

scanf("%d",&a);
char *so=options(a);
printf("\nChoose your Destination: ");
printf("\n-----");
printf("\n Press 1 for Hyderabad");
printf("\nPress 2 for Banglore");
printf("\nPress 3 for chennai");
printf("\nPress 4 for delhi");
printf("\n-----\n");
int a1;
scanf("%d",&a1);
char *de=options(a1);
if(strcmp(de,so)==0){
    system ("cls");
    printf("Both source and destination must be different\n");
    printf("\n-----\n");
    goto choose;
}
else{
    printf("Okay...\n");
    date:
    printf("\nEnter the month and date to travel:");
    int mon,dat;
    scanf("%d %d",&mon,&dat);
    int c= calendar(mon,dat);
    FILE *ptr;
    ptr=fopen("D:\\Wipro domain training\\Day 10\\air.txt","r");
    if(ptr==NULL){
        printf("Error opening a file");
        return ;
    }
    char res[100];
    char *date;
    sprintf(date,"%d",dat);
    while(fgets(res,sizeof(res),ptr)){
        if(strstr(res,"source:")&&
strstr(res,so)&&strstr(res,"destination:")&&
strstr(res,de)&&strstr(res,"date:") && strstr(res,date)){
            printf("\n-----\n");
            printf("\nFlights Found Based on Your Search\n");
            printf("\n-----\n");
            printf("%s\n",res);
            printf("-----
\n");

            printf("\nThank You for visiting OMG Airlines.....!\n");
            return ;
        }
    }
}

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    }
    printf("\nNo Flights are available on that dates\n\n");
    printf("\n-----\n");
    printf("\nThank You for visiting The Airlines.....!\n");
    fclose(ptr);
}
}
void check(){
}
int main(){
    start();
    return 0;
}

```

Output : Welcome to The AirLines..!

```

-----
Press 1 to BookTickets!
Press 2 to check Upcoming flights!
Press 3 to exit...!!

```

```

-----
1

```

Choose your Starting Location:

```

-----
    Press 1 for Hyderabad
Press 2 for Bangalore
Press 3 for chennai
Press 4 for delhi

```

```

-----
1

```

Choose your Destination:

```

-----
    Press 1 for Hyderabad
Press 2 for Bangalore
Press 3 for chennai
Press 4 for delhi

```

```

-----
2
Okay...

```

Enter the month and date to travel:06 22

```
-----  
Sun Mon Tue Wed Thu Fri Sat  
      1  
  2   3   4   5   6   7   8  
  9  10  11  12  13  14  15  
16  17  18  19  20  21  22  
23  24  25  26  27  28  29  
30  
-----  
  
No Flights are available on that dates  
  
-----  
  
Thank You for visiting The Airlines.....!
```

```
air.txt:  
source:hyderabad destination:banglore date:12 available:2 Prices:1000-20000  
source:banglore destination:delhi date:1 available:12 prices:15000-20000  
source:chennai destination:hyderabad date:20 available:20 prices:3000-4000  
source:hyderabad destination:banglore date:24 available:2 Prices:1300-200001
```