

MINI PROJECT

AIRLINE SEAT RESERVATION SYSTEM

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INTRODUCTION

My project is based on the concept of reserving airline seats for the passengers. There's no login system available for this system, the user can freely use its feature. This mini project contains limited features, but the essential one. Talking about the features of this Simple system, the user has to select the seat class whether to choose Business or Economy class. Then the system displays available seats, and the user has to enter that particular seat number in order to reserve it. After reserving a seat, that particular seat won't be available anymore for other users. Apart from this, for Business class price per seat is 5000 and for Economy class price per seat is 2000. This system will also calculate the total cost of the seats reserved by the user.

THE SOURCE CODE OF THIS PROJECT:

```
#include<stdio.h>

#include<math.h>

#include<string.h>

#include<stdlib.h>

int main(void)
{
    int c,p,x=0,y=0,price=0;

    int i;

    int j;

    int s[10]={};

    printf("Welcome to Simple Airline Seat Reservations
System\n\n");

    for (j=0; j<10; j++)
    {
        printf("Choose 1 for Business Class and 2 for Economic
class\t");

        scanf("%i",&c);

        //system("cls");

        switch(c)
```

```

{
case 1:

    printf("\nBusiness class\n");

    printf("Seats available are 1,2,3,4,5.\n");

    do

    {

printf("Pick a seat:\n\n");

scanf("%i",&p);

s[j]=p;

//system("cls");

if(x>=5){

    printf("All seats of Business is full.\n We are sorry for you.");

        }

        else{

            for (i=0; i<j; i++)

            {

if (s[j]==s[i])

{

printf("\n\nSeat taken.\n\n");

break;

```

```

    }

    }

}

while (i!=j);

    if(s[j] <= 5)

    {

        printf("\n");

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

        printf("Class: Business class\n");

        printf("Seat no : %i\n",s[j]);

        printf("Price per seat is : 5000 rupees only\n");

        price=price+5000;

        printf("Total cost : %d",price);

        ++x;

        printf("\n\n");

    }

else

    printf("\nWrong number! No seat for you!\n\n");

```

```

break;

    case 2:

        printf("\nEconomical class\n");

        printf("Seats available are 6,7,8,9,10.\n");

        do

        {

printf("Pick a seat:\n\n");

scanf("%i",&p);

s[j]=p;

//system("cls");

if(y>=5){

    printf("All seats of economic is full.\n We are sorry for
you.");

        }

        else{

            for (i=0; i<j; i++)

            {

if (s[j]==s[i])

{

printf("\n\nSeat taken.\n\n");

```

```

        break;
    }

    }

}

}

while (i!=j);
    if(s[j] >= 6)
    {
        printf("\n");
        printf("-----\n");
        printf("Class: Economical class\n");
        printf("Seat no : %i\n",s[j]);
        printf("Price per seat is : 2000 rupees only\n");
        price=price+2000;
        printf("Total cost : %d",price);
        ++y;
        printf("-\n\n");
    }
else{
    printf("\nWrong number! No seat for you!\n\n");

```

```
break;
```

```
}
```

```
default:
```

```
break;
```

```
}//end switch case
```

```
}//end counting people*/
```

```
return 0;
```

```
}
```

OUTPUT SCREEN:

```
Welcome to Simple Airline Seat Reservations System

Choose 1 for Business Class and 2 for Economic class  1

Business class
Seats available are 1,2,3,4,5.
Pick a seat:

1

.....
Class: Business class
Seat no : 1
Price per seat is : 5000 rupees only
Total cost : 5000

Choose 1 for Business Class and 2 for Economic class  1

Business class
Seats available are 1,2,3,4,5.
Pick a seat:

1

Seat taken.

Pick a seat:

2

.....
Class: Business class
Seat no : 2
Price per seat is : 5000 rupees only
Total cost : 10000

Choose 1 for Business Class and 2 for Economic class
```



```
1
-----
Class: Business class
Seat no : 1
Price per seat is : 5000 rupees only
Total cost : 5000

Choose 1 for Business Class and 2 for Economic class  1

Business class
Seats available are 1,2,3,4,5.
Pick a seat:

1

Seat taken.

Pick a seat:

2
-----
Class: Business class
Seat no : 2
Price per seat is : 5000 rupees only
Total cost : 10000

Choose 1 for Business Class and 2 for Economic class  2

Economical class
Seats available are 6,7,8,9,10.
Pick a seat:

6
-----
Class: Economical class
Seat no : 6
Price per seat is : 2000 rupees only
Total cost : 12000-

Choose 1 for Business Class and 2 for Economic class
```

