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Project Title: Bus Booking System

### BUSBOOK.C

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include <time.h>
#define SIZE 28
#define word 30
#define max_op 8
#define max_route 10
#define max_pd 7
#define PRICE_PER_STOP 120

struct Route {
    char routeName[word];
    char pickDrop[max_pd][word];
};

struct BusOperator {
    char name[word];
    struct Route routes[max_route];
}operators[max_op];

struct findBus {
```

```
int busName_i;
int routeName_i[5];
int routeCount;
int stopCount[5];
}find_bus[max_op];

char list[SIZE][word] = { "Ahmedabad", "Amreli", "Anjar", "Anand", "Bhavnagar", "Botad", "Bhuj", "Dwarka", "Chotila",
"Bhachau", "Dhrol", "Dhoraji", "Gandhinagar", "Gandhidham", "Jamnagar", "Junagadh", "Jetpur", "Khambhalia", "Limbdi",
"Mehsana", "Morbi", "Porbandar", "Palanpur", "Rajkot", "Somnath", "Surat", "Vadodara", "Surendranagar" };

int discount[max_op] = { 10, 5, 2, 4, 30, 5, 13, 8 };

int from, to;

void title();
int main_menu();
void booking();
void match();
void history();
void display_list();
void displayAvailable();
void load_data();
void finalBook(int, int, int);
void display_bus();
char* seatLayout();

int main() {
    int x = 8;
    // clrscr();
    load_data();
```

```
do {
    title();
    x = main_menu();
    switch (x) {
    case 0: x = 0; break;
    case 1: {
        booking();
        break;
    }
    case 2: {
        history();
        break;
    }
    case 3: {
        display_bus();
        break;
    }
    default: printf("Invalid input. See main menu and Enter proper number"); getch();
    }
} while (x); // x = 0 means false
return 0;
}

void title() {
    printf("\n\t===== Bus Booking System =====\n");
}

int main_menu() {
    int i = 8;
    printf("\n\t 1. Advance Booking");
    printf("\n\t 2. Booking History");
}
```

```

printf("\n\t 3. View Available Bus");
printf("\n\t 0. Exit Program\n");
printf("\n\t Enter number from menu: ");
scanf("%d", &i);
return i;
}

void display_bus() {
    int bus_i, route_i, stop_i;
    for (bus_i = 0; bus_i < max_op; bus_i++) {
        printf("\n\n\tOperator-%d: %s\n", bus_i + 1, operators[bus_i].name);
        for (route_i = 0; route_i < max_route; route_i++) {
            if (operators[bus_i].routes[route_i].routeName[0] != '\0') {
                printf("Route-%d: %-26s", route_i + 1, operators[bus_i].routes[route_i].routeName);
                if (route_i % 2 != 0)
                    printf("\n");
            }
        }
    }
}

void load_data() {
    // struct BusOperator operators[max_op] = { 0 };
    char data[100], line[100], * p, * startAt; //bus[8][30], route[8][11][30], pickup_drop[8][11][9][30] = { 0 }
    int bus_i, route_i, i, j, stop_i;

    FILE* bus_data = fopen("bus_data.txt", "r");

    if (bus_data == NULL) {
        printf("Bus routes data file not exist or not able to open file.");
        return;
    }
}

```

```

}

for (bus_i = 0; bus_i < max_op; bus_i++) {
    for (route_i = 0; route_i < max_route + 1; route_i++) {
        fgets(data, 100, bus_data);
        j = strcspn(data, "\n"); // find '\n' index and
        data[j] = '\0'; // replace with '\0'
        // printf("%s\n", data);

        if (route_i == 0) {
            strcpy(operators[bus_i].name, data); // store operator name
        }
        else {
            strcpy(line, data);
            // printf("%s\n", line);
            j = strcspn(line, ",");
            line[j] = '\0';

            strcpy(operators[bus_i].routes[route_i - 1].routeName, line); // route name, index start 0

            startAt = line + j + 1; // line address, than go at j index address, than +1, now startAt have address after
            comma (,)
            stop_i = 0;
            p = strtok(startAt, "|");
            while (p != NULL && stop_i < max_pd) {
                strcpy(operators[bus_i].routes[route_i - 1].pickDrop[stop_i], p);
                stop_i++;
                p = strtok(NULL, "|");
            }
        }
    }
}

```

```

    }
}

// for (bus_i = 0; bus_i < max_op; bus_i++) {
//     printf("Operator[%d]: %s\n", bus_i + 1, operators[bus_i].name);
//     for (route_i = 0; route_i < max_route; route_i++) {
//         if (operators[bus_i].routes[route_i].routeName[0] != '\0') {
//             printf("\tRoute[%d]: %s\n", route_i + 1, operators[bus_i].routes[route_i].routeName);
//             for (stop_i = 0; stop_i < max_pd; stop_i++) {
//                 if (operators[bus_i].routes[route_i].pickDrop[stop_i][0] != '\0')
//                     printf("\t\tStop[%d]: %s\n", stop_i + 1, operators[bus_i].routes[route_i].pickDrop[stop_i]);
//             }
//         }
//     }
// }

```

```

fclose(bus_data);

```

```

}

```

```

void booking() {
reEnterPoint:
    display_list();
    printf("\n\t\tFrom: ");
    scanf("%d", &from);
    from--; // Adjusting for 0-based index

    printf("\n\t\tTo: ");
    scanf("%d", &to);
    to--; // Adjusting for 0-based index

```

```

if (from == to) {
    printf("\n\tFrom and To cannot be the same. Please Enter different locations number.\n");
    getch();
    goto reEnterPoint; // Restart booking process
}
if (from < 0 || from > SIZE + 1 || to < 0 || to > SIZE + 1) { // Check for valid range ex. 1 to 28
    printf("\n\tInvalid input. Please Enter a valid number.\n");
    getch();
    goto reEnterPoint; // Restart booking process
}

// printf("\n\t%s To %s", list[from], list[to]);
match();
}

void match() {
    int bus_i, route_i, stop_i, stops_count = 0;
    int flag_f = 0, flag_t = 0, found = 0;
    int i = 0, j = 0;
    int b, r;

    // initialize find_bus
    for (b = 0; b < max_op; b++) {
        find_bus[b].busName_i = -1;
        find_bus[b].routeCount = 0;
        for (r = 0; r < 5; r++) {
            find_bus[b].routeName_i[r] = -1;
            find_bus[b].stopCount[r] = 0;
        }
    }
}

```

```

printf("\n\t%s To %s\n", list[from], list[to]);

for (bus_i = 0; bus_i < max_op; bus_i++) {
    j = 0; // reset per bus
    for (route_i = 0; route_i < max_route; route_i++) {
        for (stop_i = 0; stop_i < max_pd; stop_i++) {
            if (strcmp(operators[bus_i].routes[route_i].pickDrop[stop_i], list[from]) == 0 || flag_f == 1) {
                if (flag_f == 0) {
                    flag_f = 1;
                    stops_count = 0;
                }
                else {
                    stops_count++;
                }
                if (strcmp(operators[bus_i].routes[route_i].pickDrop[stop_i], list[to]) == 0) {
                    flag_t = 1;
                    break;
                }
            }
        }
    }
    if (flag_f == 1 && flag_t == 1) {
        find_bus[i].busName_i = bus_i;
        find_bus[i].routeName_i[j] = route_i;
        find_bus[i].routeCount = j + 1;
        find_bus[i].stopCount[j] = stops_count;
        j++;
        found = 1;
    }
    flag_f = 0;
    flag_t = 0;
}

```



```

    }
    if (find_bus[i].busName_i != -1) {
        i++;
    }
}

if (found) {
    displayAvailable();
}
else {
    printf("\n\t Sorry, Not any bus route found for your journey.\n");
    getch();
}
}

void displayAvailable() {

    int b, r, s, i, n;
reEnterNumber:
    // printf("\n No.\tBus Operator Name\tBus Route\tPrice\n");
    printf("\n%-4s %-23s %-26s %5s %12s\n", "No.", "Bus Operator Name", "Bus Route", "Price", "Discount");
    printf("-----\n");
    i = 1;
    for (b = 0; b < max_op; b++) {
        if (find_bus[b].busName_i != -1) {
            for (r = 0; r < find_bus[b].routeCount; r++) {
                if (find_bus[b].routeName_i[r] != -1) {
                    printf(" %-4d %-23s %-26s %4.2lf %6d%%\n", i++, operators[find_bus[b].busName_i].name,
operators[find_bus[b].busName_i].routes[find_bus[b].routeName_i[r]].routeName, (double)((find_bus[b].stopCount[r] *
PRICE_PER_STOP) * (100 - discount[find_bus[b].busName_i])) / 100.0, discount[find_bus[b].busName_i]);

```

```

    }
}

printf("\n\tEnter number: ");
scanf("%d", &n);
if (n >= i || n <= 0) {
    printf("\n\tInvalid input. Please Enter a valid number from table.");
    getch();
    goto reEnterNumber;
}
else {
    i = 1;
    for (b = 0; b < max_op; b++) {
        if (find_bus[b].busName_i != -1) {
            for (r = 0; r < find_bus[b].routeCount; r++) {
                if (find_bus[b].routeName_i[r] != -1 && i == n) {
                    finalBook(find_bus[b].busName_i, find_bus[b].routeName_i[r], find_bus[b].stopCount[r]);
                    // printf(" %d\t%s\t\t%s\n", i, operators[find_bus[b].busName_i].name,
operators[find_bus[b].busName_i].routes[find_bus[b].routeName_i[r]].routeName);
                }
                i++;
            }
        }
    }
}

}

}

}

void finalBook(int operator_i, int route_i, int stops_count) {
    char* seat;

```

```

char name[50], m_number[11], fname[15], age[3], gender[6];
FILE* rf;
time_t t;
struct tm* today;
char date[11];
double price = (double)((stops_count * PRICE_PER_STOP) * (100 - discount[operator_i])) / 100.0;

printf("\nBus Operator: %s\t Route: %s\n", operators[operator_i].name,
operators[operator_i].routes[route_i].routeName);

seat = seatLayout();
// printf("\n%s", seat);

printf("\n\tEnter Your name: ");
scanf("%s", name);
// printf("\n\tNote: Enter 10-digit only. Number is impotent for booking cantinotation.");
printf("\n\tEnter Mobile Number: ");
scanf("%s", m_number);
printf("\n\tEnter Your Age: ");
scanf("%s", age);
printf("\n\tEnter Your Gender[M/F]: ");
scanf("%s", gender);

// printf("\n\tname: %s\n\tmobile number: %s", name, m_number);

strcpy(fname, m_number);
strcat(fname, ".txt");

time(&t);
today = localtime(&t);
strftime(date, sizeof(date), "%d/%m/%Y", today);

```

```

// printf("\n%s", fname);

rf = fopen(fname, "a");
fprintf(rf, "%s|%s|", name, m_number); // name, mobile number
fprintf(rf, "%s|%s|", age, gender); // name, mobile number
fprintf(rf, "%s to %s|", list[from], list[to]); // bus details
fprintf(rf, "%s|%s|", operators[operator_i].name, seat); // operator name, seat
fprintf(rf, "%.2lf|%s\n", price, date); // price, date

fclose(rf);

// textcolor(GREEN);
// cprintf("\n\tYour Bus Booking Successfully\n");
printf("\n\tYour Bus Booking Successfully.");
printf("\n\t--[record file %s.txt created.]", m_number);
printf("\n\tFor see details go on option 2. Booking History and Enter mobile number carefully!\n");
// getch();
}

char* seatLayout() {
    int i, j, valid;
    char c = 'A', seat_s[3] = { 0 }, seat_c[3] = { 0 };
    static char seat[3] = { 0 };

reSelect:
    printf("\n-----");
    printf("\n\t Door      |      Driver\n");
    for (i = 0; i < 9; i++) {
        printf("\n\t");
        for (j = 0; j < 5; j++) {

```

```

    if (i == 8) {
        printf(" %d%c ", i + 1, c++);
        if (j == 4) {
            printf(" %d%c ", i + 1, c++);
        }
    }
    else {
        if (j == 2) { printf(" "); }
        printf(" %d%c ", i + 1, c++);
    }
}
printf("\n");
c = 'A';
}
printf("\n-----\n");
printf("\n\tSelect Seat (ex: 4B): ");
// fflush();
scanf("%s", seat_s);

strcpy(seat, seat_s);

// printf("\nseat_s=%s", seat_s);
// printf("\nseat=%s\n", seat);

valid = 0;
for (i = 0; i < 9; i++) {
    c = 'A';
    for (j = 0; j < 5; j++) {
        sprintf(seat_c, "%d%c", i + 1, c++);
        if (i == 8 && j == 4) {

```

```
        sprintf(seat_c, "%d%c", i + 1, c++);
    }
    // printf("  %s", seat_c, seat_s);
    if (strcmp(seat_s, seat_c) == 0) {
        valid = 1;
        break;
    }
}
if (valid) break;
}

if (!valid) {
    printf("\n\tInvalid input. Please Enter a valid seat name from Layout.");
    getch();
    goto reSelect;
}

return seat;
}

void display_list() {
    int i;
    printf("\n");
    for (i = 0; i < SIZE; i++) {
        printf("\t%2d. %s", i + 1, list[i]);
        if ((i + 1) % 4 == 0)
            printf("\n");
    }
}

void history() {
```

```

FILE* rh;
char number[12], fname[15], line[150], * p, info[][15] = { "Name", "Mobile number", "Journey", "Bus", "Seat",
"Price", "Date", "Status" };
char* name, * mobile, * age, * gender, * journey, * bus, * seat, * price, * date, * status;
int detail = 0, i = 1;

printf("\n\t Enter Mobile Number: ");
scanf("%s", number);

strcpy(fname, number);
strcat(fname, ".txt");

rh = fopen(fname, "r");

if (rh == NULL) {
    printf("\n\tRecord not found or number not match\n");
    getch();
    return;
}

printf("%-4s %-15s %-12s %-3s %-6s %-24s %-16s %-4s %-7s %-10s\n", "no", "name", "mobile", "age", "gender",
"journey", "bus", "seat", "price", "date");
printf("-----\n");

detail = 1;
while (fgets(line, sizeof(line), rh)) {
    name = strtok(line, "|");
    mobile = strtok(NULL, "|");
    age = strtok(NULL, "|");

```

```

        gender = strtok(NULL, "|");
        journey = strtok(NULL, "|");
        bus = strtok(NULL, "|");
        seat = strtok(NULL, "|");
        price = strtok(NULL, "|");
        date = strtok(NULL, "|");
        status = strtok(NULL, "|");

        printf("%-4d %-15s %-12s %-3s %-6s %-24s %-16s %-4s %-7s %-10s", detail++, name, mobile, age, gender, journey,
bus, seat, price, date);
    }
    // while (fgets(line, sizeof(line), rh)) {
    //     detail = 0;
    //     p = strtok(line, "|");
    //     printf("\n%d", i++);
    //     while (p != NULL && detail < 8) {
    //         printf("\n\t%s: %s", info[detail], p);
    //         p = strtok(NULL, "|");
    //         detail++;
    //     }
    // }
    fclose(rh);
}

```



## bus\_data.txt

### Ashapura Bus

Ahmedabad-Khambhalia,Ahmedabad | Limbdi | Chotila | Rajkot | Dhrol | Jamnagar | Khambhalia  
 Rajkot-Dwarka,Rajkot | Jetpur | Junagadh | Somnath | Porbandar | Dwarka  
 Bhuj-Ahmedabad,Bhuj | Bhachau | Morbi | Chotila | Ahmedabad  
 Bhavnagar-Surat,Bhavnagar | Botad | Surendranagar | Ahmedabad | Anand | Surat  
 Junagadh-Dwarka,Junagadh | Dhoraji | Porbandar | Khambhalia | Dwarka  
 Gandhidham-Bhavnagar,Gandhidham | Bhachau | Morbi | Rajkot | Botad | Bhavnagar  
 Surat-Rajkot,Surat | Vadodara | Limbdi | Chotila | Rajkot  
 Jamnagar-Bhavnagar,Jamnagar | Khambhalia | Rajkot | Botad | Bhavnagar  
 Palanpur-Ahmedabad,Palanpur | Mehsana | Gandhinagar | Ahmedabad  
 Bhuj-Surat,Bhuj | Bhachau | Morbi | Vadodara | Surat

### Deep Travels

Porbandar-Bhavnagar,Porbandar | Junagadh | Amreli | Bhavnagar  
 Ahmedabad-Bhuj,Ahmedabad | Rajkot | Morbi | Bhachau | Bhuj  
 Junagadh-Surat,Junagadh | Amreli | Vadodara | Surat  
 Jamnagar-Ahmedabad,Jamnagar | Dhrol | Rajkot | Limbdi | Ahmedabad  
 Morbi-Bhavnagar,Morbi | Botad | Bhavnagar  
 Bhuj-Surat,Bhuj | Bhachau | Morbi | Limbdi | Vadodara | Surat  
 Dwarka-Rajkot,Dwarka | Khambhalia | Jamnagar | Dhrol | Rajkot  
 Porbandar-Ahmedabad,Porbandar | Khambhalia | Jamnagar | Rajkot | Ahmedabad  
 Surendranagar-Junagadh,Surendranagar | Botad | Jetpur | Junagadh  
 Gandhidham-Bhavnagar,Gandhidham | Bhachau | Rajkot | Botad | Bhavnagar

### Eagle Express

Ahmedabad-Bhuj,Ahmedabad | Bhachau | Bhuj  
 Surat-Jamnagar,Surat | Vadodara | Rajkot | Khambhalia | Jamnagar  
 Rajkot-Vadodara,Rajkot | Chotila | Surendranagar | Limbdi | Anand | Vadodara  
 Bhavnagar-Ahmedabad,Bhavnagar | Botad | Limbdi | Ahmedabad  
 Gandhidham-Junagadh,Gandhinagar | Ahmedabad | Chotila | Rajkot | Jetpur | Junagadh  
 Dwarka-Vadodara,Dwarka | Khambhalia | Rajkot | Anand | Vadodara  
 Junagadh-Surat,Junagadh | Jetpur | Rajkot | Ahmedabad | Anand | Surat  
 Gandhinagar-Palanpur,Gandhinagar | Mehsana | Palanpur

Morbi-Surat,Morbi | Rajkot | Surendranagar | Anand | Vadodara | Surat  
 Jamnagar-Bhavnagar,Jamnagar | Rajkot | Botad | Bhavnagar  
 Galaxy Travels  
 Ahmedabad-Jamnagar,Ahmedabad | Rajkot | Dhrol | Jamnagar  
 Rajkot-Somnath,Rajkot | Jetpur | Junagadh | Somnath  
 Bhuj-Surat,Bhuj | Anjar | Bhachau | Morbi | Limbdi | Surat  
 Vadodara-Dwarka,Vadodara | Anand | Rajkot | Khambhalia | Dwarka  
 Surat-Bhavnagar,Surat | Vadodara | Anand | Botad | Bhavnagar  
 Morbi-Junagadh,Morbi | Rajkot | Jetpur | Junagadh  
 Bhavnagar-Jamnagar,Bhavnagar | Botad | Rajkot | Jamnagar  
 Junagadh-Palanpur,Junagadh | Jetpur | Rajkot | Ahmedabad | Mehsana | Palanpur  
 Surendranagar-Bhuj,Surendranagar | Chotila | Morbi | Bhachau | Bhuj  
 Gandhidham-Vadodara,Gandhidham | Bhachau | Morbi | Anand | Vadodara  
 G.S.R.T.C.  
 Gandhinagar-Bhavnagar,Gandhinagar | Ahmedabad | Surendranagar | Botad | Bhavnagar  
 Rajkot-Surat,Rajkot | Chotila | Surendranagar | Vadodara | Surat  
 Bhuj-Vadodara,Bhuj | Bhachau | Morbi | Anand | Vadodara  
 Junagadh-Ahmedabad,Junagadh | Jetpur | Rajkot | Ahmedabad  
 Bhuj-Dwarka,Bhuj | Morbi | Rajkot | Dhrol | Jamnagar | Khambhalia | Dwarka  
 Surat-Bhuj,Surat | Vadodara | Ahmedabad | Morbi | Bhachau | Bhuj  
 Vadodara-Somnath,Vadodara | Anand | Rajkot | Junagadh | Somnath  
 Palanpur-Surat,Palanpur | Mehsana | Ahmedabad | Anand | Vadodara | Surat  
 Morbi-Bhavnagar,Morbi | Rajkot | Chotila | Limbdi | Botad | Bhavnagar  
 Dwarka-Junagadh,Dwarka | Khambhalia | Jamnagar | Dhrol | Rajkot | Junagadh  
 Patel Travels  
 Gandhinagar-Porbandar,Gandhinagar | Ahmedabad | Rajkot | Dhrol | Jamnagar | Junagadh | Porbandar  
 Surat-Bhuj,Surat | Vadodara | Rajkot | Morbi | Gandhidham | Bhuj  
 Rajkot-Vadodara,Rajkot | Chotila | Limbdi | Anand | Vadodara  
 Bhavnagar-Ahmedabad,Bhavnagar | Botad | Surendranagar | Limbdi | Ahmedabad  
 Junagadh-Morbi,Junagadh | Jetpur | Rajkot | Morbi  
 Vadodara-Somnath,Vadodara | Anand | Rajkot | Junagadh | Somnath  
 Bhuj-Rajkot,Bhuj | Anjar | Bhachau | Morbi | Rajkot  
 Dwarka-Surat,Dwarka | Khambhalia | Jamnagar | Rajkot | Vadodara | Surat

Gandhidham-Ahmedabad,Gandhidham| Bhachau| Surendranagar| Ahmedabad  
 Palanpur-Bhavnagar,Palanpur| Gandhinagar| Limbdi| Botad| Bhavnagar  
 Dwarkadhish Bus  
 Rajkot-Surat,Rajkot| Chotila| Limbdi| Vadodara| Surat  
 Ahmedabad-Somnath,Ahmedabad| Rajkot| Junagadh| Somnath  
 Dwarka-Gandhinagar,Dwarka| Porbandar| Junagadh| Jetpur| Rajkot| Ahmedabad| Gandhinagar  
 Bhuj-Ahmedabad,Bhuj| Bhachau| Ahmedabad  
 Dwarka-Bhavnagar,Dwarka| Khambhalia| Junagadh| Amreli| Botad| Bhavnagar  
 Junagadh-Bhuj,Junagadh| Jetpur| Rajkot| Bhachau| Bhuj  
 Morbi-Dwarka,Morbi| Rajkot| Khambhalia| Dwarka  
 Vadodara-Rajkot,Vadodara| Anand| Limbdi| Chotila| Rajkot  
 Dwarka-Ahmedabad,Dwarka| Khambhalia| Jamnagar| Rajkot| Surendranagar| Ahmedabad  
 Palanpur-Dwarka,Palanpur| Gandhinagar| Ahmedabad| Rajkot| Jamnagar| Khambhalia| Dwarka  
 Nand Travels  
 Ahmedabad-Bhuj,Ahmedabad| Chotila| Morbi| Anjar| Bhuj  
 Rajkot-Surat,Rajkot| Chotila| Ahmedabad| Vadodara| Surat  
 Vadodara-Somnath,Vadodara| Ahmedabad| Rajkot| Junagadh| Somnath  
 Surat-Jamnagar,Surat| Vadodara| Ahmedabad| Rajkot| Jamnagar  
 Junagadh-Bhavnagar,Junagadh| Jetpur| Amreli| Botad| Bhavnagar  
 Bhuj-Vadodara,Bhuj| Anjar| Bhachau| Morbi| Anand| Vadodara  
 Dwarka-Surat,Dwarka| Khambhalia| Jamnagar| Rajkot| Ahmedabad| Gandhinagar| Surat  
 Gandhidham-Ahmedabad,Gandhidham| Bhachau| Surendranagar| Ahmedabad  
 Bhavnagar-Rajkot,Bhavnagar| Amreli| Rajkot  
 Palanpur-Porbandar,Palanpur| Mehsana| Ahmedabad| Rajkot| Jetpur| Junagadh| Porbandar

**OUTPUT:-**

===== Bus Booking System =====

1. Advance Booking
2. Booking History
3. View Available Bus
0. Exit Program

Enter number from menu: 3

Operator-1: Ashapura Bus

Route-1: Ahmedabad-Khambhalia	Route-2: Rajkot-Dwarka
Route-3: Bhuj-Ahmedabad	Route-4: Bhavnagar-Surat
Route-5: Junagadh-Dwarka	Route-6: Gandhidham-Bhavnagar
Route-7: Surat-Rajkot	Route-8: Jamnagar-Bhavnagar
Route-9: Palanpur-Ahmedabad	Route-10: Bhuj-Surat

Operator-2: Deep Travels

Route-1: Porbandar-Bhavnagar	Route-2: Ahmedabad-Bhuj
Route-3: Junagadh-Surat	Route-4: Jamnagar-Ahmedabad
Route-5: Morbi-Bhavnagar	Route-6: Bhuj-Surat
Route-7: Dwarka-Rajkot	Route-8: Porbandar-Ahmedabad
Route-9: Surendranagar-Junagadh	Route-10: Gandhidham-Bhavnagar

Operator-3: Eagle Express

Route-1: Ahmedabad-Bhuj	Route-2: Surat-Jamnagar
Route-3: Rajkot-Vadodara	Route-4: Bhavnagar-Ahmedabad

Route-5: Gandhidham-Junagadh	Route-6: Dwarka-Vadodara
Route-7: Junagadh-Surat	Route-8: Gandhinagar-Palanpur
Route-9: Morbi-Surat	Route-10: Jamnagar-Bhavnagar

Operator-4: Galaxy Travels

Route-1: Ahmedabad-Jamnagar	Route-2: Rajkot-Somnath
Route-3: Bhuj-Surat	Route-4: Vadodara-Dwarka
Route-5: Surat-Bhavnagar	Route-6: Morbi-Junagadh
Route-7: Bhavnagar-Jamnagar	Route-8: Junagadh-Palanpur
Route-9: Surendranagar-Bhuj	Route-10: Gandhidham-Vadodara

Operator-5: G.S.R.T.C.

Route-1: Gandhinagar-Bhavnagar	Route-2: Rajkot-Surat
Route-3: Bhuj-Vadodara	Route-4: Junagadh-Ahmedabad
Route-5: Bhuj-Dwarka	Route-6: Surat-Bhuj
Route-7: Vadodara-Somnath	Route-8: Palanpur-Surat
Route-9: Morbi-Bhavnagar	Route-10: Dwarka-Junagadh

Operator-6: Patel Travels

Route-1: Gandhinagar-Porbandar	Route-2: Surat-Bhuj
Route-3: Rajkot-Vadodara	Route-4: Bhavnagar-Ahmedabad
Route-5: Junagadh-Morbi	Route-6: Vadodara-Somnath
Route-7: Bhuj-Rajkot	Route-8: Dwarka-Surat
Route-9: Gandhidham-Ahmedabad	Route-10: Palanpur-Bhavnagar

Operator-7: Dwarkadhish Bus

Route-1: Rajkot-Surat	Route-2: Ahmedabad-Somnath
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Route-3: Dwarka-Gandhinagar	Route-4: Bhuj-Ahmedabad
Route-5: Dwarka-Bhavnagar	Route-6: Junagadh-Bhuj
Route-7: Morbi-Dwarka	Route-8: Vadodara-Rajkot
Route-9: Dwarka-Ahmedabad	Route-10: Palanpur-Dwarka

Operator-8: Nand Travels

Route-1: Ahmedabad-Bhuj	Route-2: Rajkot-Surat
Route-3: Vadodara-Somnath	Route-4: Surat-Jamnagar
Route-5: Junagadh-Bhavnagar	Route-6: Bhuj-Vadodara
Route-7: Dwarka-Surat	Route-8: Gandhidham-Ahmedabad
Route-9: Bhavnagar-Rajkot	Route-10: Palanpur-Porbandar

===== Bus Booking System =====

1. Advance Booking
2. Booking History
3. View Available Bus
0. Exit Program

Enter number from menu:1

1. Ahmedabad	2. Amreli	3. Anjar	4. Anand
5. Bhavnagar	6. Botad	7. Bhuj	8. Dwarka
9. Chotila	10. Bhachau	11. Dhrol	12. Dhoraji
13. Gandhinagar	14. Gandhidham	15. Jamnagar	16. Junagadh
17. Jetpur	18. Khambhalia	19. Limbdi	20. Mehsana
21. Morbi	22. Porbandar	23. Palanpur	24. Rajkot
25. Somnath	26. Surat	27. Vadodara	28. Surendranagar

From: 1

To: 26

Ahmedabad To Surat

No.	Bus Operator Name	Bus Route	Price	Discount
1	Ashapura Bus	Bhavnagar-Surat	216.00	10%
2	Eagle Express	Junagadh-Surat	235.20	2%
3	G.S.R.T.C.	Palanpur-Surat	252.00	30%
4	Nand Travels	Rajkot-Surat	220.80	8%
5	Nand Travels	Dwarka-Surat	220.80	8%

Enter number: 5

Bus Operator: Nand Travels      Route: Dwarka-Surat

Door | Driver

1A 1B    1C 1D 1E

2A 2B    2C 2D 2E

3A 3B    3C 3D 3E

4A 4B    4C 4D 4E

5A 5B    5C 5D 5E

6A 6B    6C 6D 6E

7A 7B 7C 7D 7E

8A 8B 8C 8D 8E

9A 9B 9C 9D 9E 9F

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Select Seat (ex: 4B): 2E

Enter Your name: Vishal

Enter Mobile Number: 1234567890

Enter Your Age: 23

Enter Your Gender[M/F]: M

Your Bus Booking Successfully.

--[record file 1234567890.txt created.]

For see details go on option 2. Booking History and Enter mobile number carefully!

===== Bus Booking System =====

1. Advance Booking
2. Booking History
3. View Available Bus
0. Exit Program

Enter number from menu: 2



Enter Mobile Number: 1234567890

no	name	mobile	age	gender	journey	bus	seat	price	date
1	Vishal	1234567890	23	M	Ahmedabad to Surat	Nand Travels	2E	220.80	03/10/2025

===== Bus Booking System =====

1. Advance Booking
2. Booking History
3. View Available Bus
0. Exit Program

Enter number from menu: 0

**GitHub Link:** <https://github.com/VishalChudasama08/MCA Projects/tree/main/Bus Booking System In C Language>

Run In VS Code OR Direct Run .exe File For Batter Formatted Output

# Thank You