PSP [20ES104] COURSE PROJECT REPORT

On

"Cab Booking System"

Developed By:

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CERTIFICATE

This is to certify that the PSP course project report entitled **"Cab Booking System"** is a record of bonafide work carried out by the student(s) **E. Pavan Kumar** bearing roll number(s) **2203A51631** of Computer Science and Artificial Intelligence department during the academic year 2022-23.

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PROBLEM STATEMENT:

Develop a C Application to book a cab for the user. Nowadays, it is very difficult to travel to far places. By this code a user can book a cab or an auto or a bike. The application will show reasonable prices for user.

Provide the functionality for below mentioned:

1. Select current location
2. Select mode of transportation.
3. Select destination location.
4. Enter current time zone.

MODULES:

In this application all variables and structure are declared locally. We can choose the function by using function calls which are declared in switch-case.The application asks the person who runs theprogram to enter the current location where he/she is present .

In this application four modules are used.

1. Read/Input

   In this module the application asks the person who runs the program to enter the current location and the destination location.

2. Sorting

   In this module sorting of data is done according to the chosen wise.

In this module there is a sub menu which asks to select the sorting wise by using switch case. The sorting sub menu will be like press 1 to sort by telangana location press 2 to sort by maharastra location press 3 to sort andhra pradesh press 4 to sort by karnataka location 5 to sort by tamil nadu location.

In this module we used another unconditional branching statement (goto) so that the application asks whether to continue sorting.

3. Searching

In this module searching of data is done according to the chosen wise.

In this module there is a sub menu which asks to select the destination location by using switch case.Then we have to choose mode of transportation.Finally we have to choose our current time zone,as per the time zone the charges increases simultaneously.At last 5 percent of GST charges will be added.

4. Print

In this module finally the total bill displays with addition of GST charges.

KNOWLEDGE REQUIRED TO DEVELOP THIS APPLICATION

- Variable
- Data Types
- Control Statements (if, if-else, switch)
- Functions (Any type of user defined functions)
- Unconditional Branching Statements (goto)

SOURCE CODE [.C FILE]:

```
 #include<stdio.h>
int fun(float b)
{
        int m;
        printf("\n1. 07:00A.M. - 03:00P.M.\n");
        printf("2. 03:00P.M. - 11:00P.M.\n");
        printf("3. 11:00P.M. - 07:00A.M.\n");
        printf("Enter Current Time Zone:");
        scanf("%d",&m);
        if(m==1)
        {
                b*=0.1;
                return b;
        }
        if(m==2)
        {
                b*=0.2;
                return b;
        }
        if(m==3)
        {
                b*=0.3;
                return b;
        }
}
int main()
{
        int choice,subchoice,p,a;
        float bill,totalbill,finalbill,v,n,tc,s;
        printf("1.Telangana\n");
        printf("2.Maharastra\n");
        printf("3.Andhra Pradesh\n");
        printf("4.Karnataka\n");
        printf("5.Tamil Nadu\n");
        printf("Enter Your Current Location:");
        scanf("%d",&choice);
        printf("-------\n");
        printf("\n1.Two Wheeler-Bike\n");
        printf("2.Three Wheeler-Auto\n");
        printf("3.Four Wheeler-Car\n");
        printf("Choose Mode Of Transportation:");
        scanf("%d",&p);
        if(p==1)
```

```
s=18;
if(p==2)
s=30;
if(p==3)
{
        printf("\n1.Maruthi Suzuki\tRS.40 per KM\n");
        printf("2.Swift\t\t\tRS.45 per KM\n");
        printf("3.Renault\t\tRS.50 per KM\n");
        printf("4.Mahindra\t\tRS.55 per KM\n");
        printf("Enter Your Cab Choice:");
        scanf("%d",&a);
        if(a==1)
        s=40;
        if(a==2)
        s=45;
        if(a==3)
        s=50;
        if(a==4)
        s=55;
}
switch(choice)
{
        case 1:
                printf("\n1.Hanamkonda\t5KM\n");
                printf("2.Warangal\t6KM\n");
                printf("3.Hasanparthy\t15KM\n");
                printf("4.Parkal\t20KM\n");
                printf("5.Hyderabad\t100KM\n");
                printf("Enter Your Desitination Location:");
                scanf("%d",&subchoice);
                switch(subchoice)
                {
                        case 1:
                                bill=5*s;
                                n=fun(bill);
                                totalbill=n+bill;
                                break;
                        case 2:
                                bill=6*s;
                                n=fun(bill);
                                totalbill=n+bill;
                                break;
                        case 3:
                                bill=15*s;
                                n=fun(bill);
```

```
                totalbill=n+bill;
                break;
            case 4:
                bill=20*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            case 5:
                bill=100*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            default:
                printf("Location Not Available!!");

        }
        break;
case 2:
        printf("\n1.Shiridi\t15KM\n");
        printf("2.Nashik\t20KM\n");
        printf("3.Ratnagiri\t35KM\n");
        printf("4.Aurangabad\t25KM\n");
        printf("5.Solapur\t30KM\n");
        printf("Enter Your Desitination Location:");
        scanf("%d",&subchoice);
        switch(subchoice)
        {
            case 1:
                bill=15*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            case 2:
                bill=20*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            case 3:
                printf("\nSorry!!No Vehicles Available");
                goto flag;
                break;
            case 4:
                bill=25*s;
                n=fun(bill);
                totalbill=n+bill;
```

```
                        break;

                    case 5:
                        bill=30*s;
                        n=fun(bill);
                        totalbill=n+bill;
                        break;
                    default:
                        printf("Location Not Available!!");

            }
            break;
    case 3:
            printf("\n1.Bhimavaram\t25KM\n");
            printf("2.Vishakapatnam\t36KM\n");
            printf("3.Chittor\t19KM\n");
            printf("4.Guntur\t22KM\n");
            printf("5.Gudimallam\t15KM\n");
            printf("Enter Your Desitination Location:");
            scanf("%d",&subchoice);
            switch(subchoice)
            {
                    case 1:
                        bill=25*s;
                        n=fun(bill);
                        totalbill=n+bill;
                        break;
                    case 2:
                        bill=36*s;
                        n=fun(bill);
                        totalbill=n+bill;
                        break;
                    case 3:
                        bill=19*s;
                        n=fun(bill);
                        totalbill=n+bill;
                        break;
                    case 4:
                        bill=22*s;
                        n=fun(bill);
                        totalbill=n+bill;
                        break;
                    case 5:
                        bill=15*s;
                        n=fun(bill);
```

```
                totalbill=n+bill;
                break;
            default:
                printf("Location Not Available!!");
        }
        break;
case 4:
        printf("\n1.Ballari\t16KM\n");
        printf("2.Koppal\t17KM\n");
        printf("3.Raichur\t25KM\n");
        printf("4.Udupi\t\t20KM\n");
        printf("5.Vijayapura\t31KM\n");
        printf("Enter Your Desitination Location:");
        scanf("%d",&subchoice);
        switch(subchoice)
        {
            case 1:
                bill=16*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            case 2:
                bill=17*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            case 3:
                bill=25*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            case 4:
                printf("\nSorry!!No Vehicles Available");
                goto flag;
                break;
            case 5:
                bill=31*s;
                n=fun(bill);
                totalbill=n+bill;
                break;
            default:
                printf("Location Not Available!!");

        }
        break;
```

```
        case 5:
                printf("\n1.Coimbatore\t56KM\n");
                printf("2.Kanchipuram\t17KM\n");
                printf("3.Vellore\t55KM\n");
                printf("4.Madurai\t30KM\n");
                printf("5.Chennai\t70KM\n");
                printf("Enter Your Desitination Location:");
                scanf("%d",&subchoice);
                switch(subchoice)
                {
                        case 1:
                                bill=56*s;
                                n=fun(bill);
                                totalbill=n+bill;
                                break;
                        case 2:
                                printf("\nSorry!!No Vehicles Available");
                                goto flag;
                                break;
                        case 3:
                                bill=30*s;
                                n=fun(bill);
                                totalbill=n+bill;
                                break;
                        case 4:
                                printf("\nSorry!!No Vehicles Available");
                                goto flag;
                                break;
                        case 5:
                                bill=70*s;
                                n=fun(bill);
                                totalbill=n+bill;
                                break;
                        default:
                                printf("Location Not Available!!");

                }
                break;
                default:
                printf("Location Not Available!!");
}
printf("\n-----\n");
tc=totalbill*0.05;
printf("\n5 Percent GST:%.2f",tc);
finalbill=totalbill+tc;
```

```
        printf("\n\nYour Total Bill Is:%.2f",finalbill);
        printf("\n----------\n");
        printf("\n\nDon't Forget To Rate us!!");
        flag:
        return 0;
}
```

RESULTS:

```
C:\Users\varsh\OneDrive\Desktop\CabBookingSystem.exe
1.Telangana
2.Maharastra
3.Andhra Pradesh
4.Karnataka
5.Tamil Nadu
Enter Your Current Location:1
-------

1.Two Wheeler-Bike
2.Three Wheeler-Auto
3.Four Wheeler-Car
Choose Mode Of Transportation:3

1.Maruthi Suzuki        RS.40 per KM
2.Swift                 RS.45 per KM
3.Renault               RS.50 per KM
4.Mahindra              RS.55 per KM
Enter Your Cab Choice:2

1.Hanamkonda    5KM
2.Warangal      6KM
3.Hasanparthy   15KM
4.Parkal        20KM
5.Hyderabad     100KM
Enter Your Desitination Location:1

1. 07:00A.M. - 03:00P.M.
2. 03:00P.M. - 11:00P.M.
3. 11:00P.M. - 07:00A.M.
Enter Current Time Zone:1

-----

5 Percent GST:12.35

Your Total Bill Is:259.35
--------------


Don't Forget To Rate us!!
--------------------------------
Process exited after 31.16 seconds with return value 0
Press any key to continue . . .
```