

1 welcome to karish traveles

2 aim

The aim of this programme is to book a ride from one place to another different function are required and different function have different work this programme totally contain 10 functions

3 function

3.1 customerid()

The aim of this function is that it ask from the customer wheather he wants to login or sign in if login then press 1 and if sign in then press 2 if customer wants to login then they will proceed further and if sign in he have to enter some details such as name mobile number and city she or he belongs to

3.2 vacancyofseat()

This function is for the driver in this function we will ask the driver wheather he is free to the ride or not if he is free to take you to the drive then he will press 1 and any number if he available

3.3 boardingdestination()

After the choice of the driver if the driver is free then a customer have to enter the pick up location and the destination you want to arrive in this function we introduce 2 string 1st string for pick up and second for destination

3.4 type of ride()

In this function you have to choose the type of ride means wheather the bike or auto for this we have to press 1 for the bike and any integer for the auto for this we make a variable n

3.5 otpgenerator()

In this function we have to generate a random otp which is send it to the registered number and then we verify it wheather the entered otp is correct or not if correct then proceed further otherwise the code will exit because you entered the wrong otp

3.6 calculatefair()

In this function we have to calculate the fair and already mentioned that the price for 1 km is 10 rs so the total price will be no of km multiplies by 10 and we have to entered the number of km

3.7 paymentmode()

In this function we use a variable name mode and said press 1 if online payment and other for a offline payment if you choose the online payment then it will ask you the source of the payment and press g for the google pay and p for the phonepay and other for other upi options

3.8 changelocation()

In this function we will ask the customer wheather he or she wants to change the pickup location if yes than enter a new pickup location and if the new pick up location is under 100m no extra charge will be charged and ask the customer wheather he or she wants to continue then press c if not then exit the function

3.9 cancelride

it will ask if the customer wants to cancel the ride or not press i if yes otherwise no if the customer press 1 and ask to cancel the ride then it will ask for the reason of the cancellation there are 2 reason given choose the appropraite rrason for cancelling the ride

3.10 feedback

if all the function run alright then at last we have to give the feedback of ride if it was very good then rate it by 5 star and if good then 4 star if okk okk then 3 star not up to the mark 2 star and too bad for 1 star

4 THANKS FOR CHOOSING THE KARISH TRAVELLES

5 CODE

```
//welcome to karish travellers
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
// this function will ask you to enter your pickup location and the location in which you want to go
void boardingdestination()
{
    char boarding[50]; //pickup location
    char destination[50];
    printf("Enter your pickup location\n");
    gets(boarding);
    printf("enter the destination you want to go\n");
    gets(destination);
}
// this function will generate a otp and send to the registered number and verify it
void otpgenerator()
{
    int otp;
    int verify;
    srand(time(NULL)); //generating a random otp
    otp = rand();
    printf("%d\n",otp);
    printf("verifying\n");
    scanf("%d",&verify); //verifying
    if(verify==otp)
    {
```

```

        printf("entered otp is correct\n");
    }
    else{
        printf("you entered wrong otp");
        exit(0); //if entered otp is incorrect then it will exit a code
    }
}
//this function will give the feedback of ride
void feedback()
{
    printf("please enter your feedback\n");
    int n;
        scanf("%d",&n);
    s w i t c h
    {
        case 5:
            printf("*****\n"); // if ride was excellent
            break;
        case 4:
            printf("****\n"); //if good
            break;
        case 3:
            printf("***\n"); // if appropriate
            break;
        case 2:
            printf("**\n"); //if not good
            break;
        case 1:
            printf("*\n"); //and if too bad
            break;
    }

    printf("thankyou so much for the feedback\n");
}
//this function will ask the customer the type of payment he was doing wheather online or o
void paymentmode()
{
    int mode;
    char ch;
    printf("please choose the type of payment press 1 for online payment otherwise offl
    scanf("%d",&mode);
    if(mode==1)
    {
        printf("go for a online payment\n");
        printf("now choose from where you want to do payment pess g for google pay
        scanf("%s",&ch);
        if(ch == 'g'){ //g for google pay
            printf("google pay\n");
        }
        else if(ch=='p'){
            printf("phonepay\n"); //p for phonepay
        }
    }
}

```

```

        else{
            printf("others\n"); //other app of upi
        }
    }
    else{
        printf("offline payment\n");
    }
}
//this function will ask the customer type of ride he wants wheather bike or auto
void typeofride()
{
    printf("press 1 for bike otherwise auto\n");
    int n;
    scanf("%d",&n);
    if(n==1){
        printf("bike\n");
    }
    else{
        printf("auto\n");
    }
}
//this function will ask the customer wheather he wants to login or sign in
void customerid()
{
    char name[50];
    char city[50];
    unsigned long number;
    printf("enter the city in which you live\n");
    gets(city);
    printf("enter the name of the customer\n");
    gets(name);
    printf("enter the mobile number of the customer\n");
    scanf("%lu",&number);
    getchar();
}
void changelocation()
{
    //if customer wants to change the location or not press 1 if wants to otherwise no

    char ch;
    char newlocation[50];
    printf("if change is under 100m no extra charges will be charged press c to continue\n");
    scanf("%s",&ch);
    getchar();
    if(ch == 'c')
    {
        printf("please enter the new location\n");
        gets(newlocation);
    }
    else{
        printf("thanks for coming\n");
    }
}

```

```
}
//this function will ask the customer if he wants to change the location or not
void cancelride()
{
    //do you want to cancel the ride press 1 if yes otherwise no
    int r;
    printf("do you want to cancel the ride or not\n");
    printf("reason for the cancellation is\n");
    //    scanf("%d",&r);
    printf("press 1 for change of plans\n , press 2 for late in coming\n");
    scanf("%d",&r);
    printf("your ride has been cancelled\n");
    exit(0);
}
//this function is for the driver wheather he is free to take the ride or he is busy
void vacancyofseat()
{
    //here driver has a choice wheather he wants to take the particular ride or he is b
    printf("press 1 if driver is free and 2 for other\n");
    int n;
    scanf("%d",&n);
    getchar();
    if(n==1)
    {
        printf("i am ready to take your drive\n");
    }
    else
    {
        printf("sorry ride is not free\n");
        exit(0);
    }
}
void calculatefair()
{
    int n;
    printf("enter the no of kms is your ride\n");
    scanf("%d",&n);
    printf("price for 1km is 10 rs so your total fair for the ride is %d\n",10*n);
}

int main()
{
    printf("welcome to karish travels\n");
    printf("asking the customer wheather he wants to login or sign in\n");
    printf("press 1 for login and 2 for sign in\n");
    int customerinformation;
    scanf("%d",&customerinformation);
    getchar();
    if(customerinformation==1){
        printf("welcome to karish app\n");
    }
}
```

```
        else{
            customerid();
        }
        vacancyofseat();
        boardingdestination();
        typeofride();
        otpgenerator();
        calculatefair();
        paymentmode();
        printf("do you want to change the loction press 1 if yes\n");
        int newpickup;
        scanf("%d",&newpickup);
        if(newpickup==1){
            changelocation();
        }
        else{
            printf("you dont want to change the location\n");
        }
        printf("do you want to ancel the ride press 1 if yes\n");
        int cancel;
        scanf("%d",&cancel);
        if(cancel==1){
            cancelride();
        }
        else{
            printf("enjoy your ride\n");
        }
        feedback();

        return 0;
    }
}
```

6 OUTPUT

welcome to the karish travells asking the customer wheather he wants to login or sign in press 1 for login and 2 for sign in

2

enter the city in which you live

indore

enter the name of the customer

karina rajawat

enter the mobile number of the customer

6261429594

press 1 if driver is free and 2 for other

1

i am ready to take your drive

Enter your pickup location

sgsits

enter the destination you want to go

```

railway statipn
press 1 for bike otherwise auto
1
bike
2819
verifying
2819
entered otp is correct
enter the no of kms is your ride
4
price for 1km is 10 rs so your total fair for the ride is 40
please choose the type of payment press 1 for online payment otherwise offline
1
go for a online payment
now choose from where you want to do payment pess g for google pay p for phone pay and others
for others
g
google pay
do you want to change the loction press 1 if yes
2
you dont want to change the location
do you want to ancel the ride press 1 if yes
2
enjoy your ride
please enter your feedback
3
**
thankyou so much for the feedback

```

```

Process exited after 246.2 seconds with return value 0
Press any key to continue . . .

```

7 PYTHON CODE

```

import random
# importing random to generate a random otp

# this function will the customer weather he wants to login or sign in
# if sign in then we have to entered the following details
def customerid():
    nameofcustomer = input("enter the name of the customer\n");
    mobilenumber = int(input("enter your mobile number\n"));

```

```
cityname = input("enter the city in which you live\n");

# this function will ask the customer pickup point and destination point
def boardingdestination():
    boarding = input("enter the pickup location\n");
    destination = input("enter the destination you want to arrive\n");

# this function is for the driver that if he is available to take to the ride or not
def vacancyofseat():
    print("press 1 if driver is free otherwise 2\n");
    vacany = int(input("press"))
    if (vacany == 1):
        print("i am ready to take your ride\n");
    else:
        print("sorry ride is not free\n");
        exit(0);

# it will ask what type of ride wants two whealer or auto
def typeofride():
    print("press 1 for bike otherwise auto\n");
    typeofride = int(input("press\n"));
    if (typeofride == 1):
        print("your bike is ready\n");
    else:
        print("your auto is ready\n");

def otpgenerator():
    otp = random.randrange(100000, 999999)
    print(otp);

    verify = int(input("enter the otp\n"))
    if (otp == verify):
        print("entered otp is correct\n")
    else:
        print("sorry you entered wrong otp\n")
        exit(0);

def calculatefair():
    noofkm = int(input("enter the no of km you have to travell\n"));
    fair = noofkm * 10;
    print("price for your ride is\n", fair);

def paymentmode():
    print("press 1 for online and else offline\n");
    mode = int(input("press "))
```



```
if (mode == 1):
    print("you are going for a online payment, now press g for google pay and p fo
    upi = input("press ")
    if (upi == 'g'):
        print("google pay");
    elif (upi == 'p'):
        print("phonepay")
    else:
        print("others");
else:
    print("you are going for a offline payment")

def feedback():
    n = int(input("enter the value of n\n"))
    if (n == 5):
        print("*****")
    elif (n == 4):
        print("*****")
    elif (n == 3):
        print("****")
    elif (n == 2):
        print("***")
    else:
        print("**")

def changelocation():
    print("an extra charge will be charged if new location is not under 100m press
    agree = input()
    if (agree == 'c'):
        print("enter new location\n")
        newlocation = input("enter new location\n")
    else:
        print("thanks for coming\n")
# if customer wants to cancel the ride or not and if wants then what is the reason
def cancelride():
    print("do you want to cancel the ride oe not press 1 to cancel")
    cancel = int(input());
    if (cancel == 1):
        print("reason for cancellation is press 1 for change of plans\n 2 for late in
        press = int(input())
        print(("your ride has been cancelled\n"))
        exit(0)
    else:
        print("enjoy your ride\n")

# starting of the main function
```

```
print("press 1 if customer wants to login and 2 for sign in")
customerinformation = int(input())
if(customerinformation == 1):
    print("welcome to karish traveles")
else:
    customerid()

boardingdestination()
typeofride()
vacancyofseat()
otpgenerator()
calculatefair()
paymentmode()
print("do you want to change the location press 1 if yes oherwise no")
change = int(input())
if change==1:
    changelocation()
else:
    print("don't want to change the location")
cancelride()
print("please enter your feedback in form of n")
feedback()
```

8 Profiling in c language

9 Debugging in c language

The image displays three sequential screenshots of a Visual Studio Code editor window, showing the 'profiling.txt' file. The editor's interface includes a menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help), a toolbar, and a sidebar with icons for Explorer, Search, Run and Debug, and Extensions. The file 'profiling.txt' is open, and the content is as follows:

Flat profile:

Each sample counts as 0.01 seconds.
no time accumulated

%	cumulative	self	self	total	
time	seconds	seconds	calls	Ts/call	Ts/call name
0.00	0.00	0.00	1	0.00	0.00 boardingdestination
0.00	0.00	0.00	1	0.00	0.00 calculatefair
0.00	0.00	0.00	1	0.00	0.00 changelocation
0.00	0.00	0.00	1	0.00	0.00 customerid
0.00	0.00	0.00	1	0.00	0.00 feedback
0.00	0.00	0.00	1	0.00	0.00 otpgenerator
0.00	0.00	0.00	1	0.00	0.00 paymentmode
0.00	0.00	0.00	1	0.00	0.00 typeofride
0.00	0.00	0.00	1	0.00	0.00 vacancyofseat

Call graph (explanation follows)

granularity: each sample hit covers 4 byte(s) no time propagated

index	% time	self	children	called	name
	0.00	0.00	0.00	1/1	main [90]
[2]	0.0	0.00	0.00	1	boardingdestination [2]
	0.00	0.00	0.00	1/1	main [90]
[3]	0.0	0.00	0.00	1	calculatefair [3]
	0.00	0.00	0.00	1/1	main [90]
[4]	0.0	0.00	0.00	1	changelocation [4]

Call tree

index	% time	self	children	called	name
[5]	0.0	0.00	0.00	1/1	main [90]
	0.00	0.00	0.00	1	customerid [5]
	0.00	0.00	0.00	1/1	main [90]
[6]	0.0	0.00	0.00	1	feedback [6]
	0.00	0.00	0.00	1/1	main [90]
[7]	0.0	0.00	0.00	1	otpgenerator [7]
	0.00	0.00	0.00	1/1	main [90]
[8]	0.0	0.00	0.00	1	paymentmode [8]
	0.00	0.00	0.00	1/1	main [90]
[9]	0.0	0.00	0.00	1	typeofride [9]
	0.00	0.00	0.00	1/1	main [90]
[10]	0.0	0.00	0.00	1	vacancyofseat [10]

This table describes the call tree of the program, and was sorted by the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the index number at the left hand margin lists the current function. The lines above it list the functions that called this function, and the lines below it list the functions this one called.

This line lists:

- index: A unique number given to each element of the table.
- Index numbers are sorted numerically.
- The index number is printed next to every function name so it is easier to look up where the function is in the table.

```

it is easier to look up where the function is in the table.
% time This is the percentage of the 'total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a '+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function '/' the total number of times the function
function '/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the '/'.

name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word
'spontaneous' is printed in the 'name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the child into the function.

children This is the amount of time that was propagated from the
child's children to the function.

called This is the number of times the function called
this child '/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the '/'.

name This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The '+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

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Index by function name

[2] boarddestination [5] customerid [8] paymentmode
[3] calculatefair [6] feedback [9] typeofride
[4] changelocation [7] otpgenerator [10] vacancyofseat

```

```

C:\Users\Dr.D\karinagit> gcc -g finalprojex.c
C:\Users\Dr.D\karinagit> gdb a.exe
GNU gdb (GDB) 7.6.1
Copyright (C) 2013 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law. Type "show copying"
and "show warranty" for details.
This GDB was configured as "mingw32".
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>...
Reading symbols from C:\Users\Dr.D\karinagit\finalprojex.exe...done.
(gdb) break 113
Undefined command: "brek". Try "help".
(gdb) break 113
Breakpoint 1 at 0x4016e9: file finalprojex.c, line 113.
(gdb) run
Starting program: C:\Users\Dr.D\karinagit\finalprojex.exe
[New Thread 2252.0x22e0]
[New Thread 2252.0x29d0]
welcome to karish travels
asking the customer wheather he wants to login or sign in
press 1 for login and 2 for sign in
2
enter the city in which you live
indore
enter the name of the customer
karina rajawat
enter the mobile number of the customer
6261429594

Breakpoint 1, customerid () at finalprojex.c:114
114 }
(gdb)
This GDB was configured as "mingw32".
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>...
Reading symbols from C:\Users\Dr.D\karinagit\finalprojex.exe...done.
(gdb) break 113
Undefined command: "brek". Try "help".
(gdb) break 113
Breakpoint 1 at 0x4016e9: file finalprojex.c, line 113.
(gdb) run
Starting program: C:\Users\Dr.D\karinagit\finalprojex.exe
[New Thread 2252.0x22e0]
[New Thread 2252.0x29d0]
welcome to karish travels
asking the customer wheather he wants to login or sign in
press 1 for login and 2 for sign in
2
enter the city in which you live
indore
enter the name of the customer
karina rajawat
enter the mobile number of the customer
6261429594

Breakpoint 1, customerid () at finalprojex.c:114
114 }
(gdb) n
main () at finalprojex.c:187
187         vacancycouseat();
(gdb) n
press 1 if driver is free and 2 for other
break 187
sorry ride is not free
[Inferior 1 (process 2252) exited normally]

```

reason = error present in the code is that it is not taking the input of bike or auto