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Latex tex file:

```
\end{document}\documentclass{article}
\usepackage{blindtext}
\usepackage[a4paper, total ={6in ,8in}]{geometry}
%\usepackage[a4paper, left=1in , right = 1in ,bottom=1in,top=1in]{geometry}
\usepackage{graphicx}
\usepackage{listings}
\lstdefinestyle{chstyle}{
basicstyle=\ttfamily\small,
showstringspaces=false,
%captionpos=b,
}
\begin{document}
\pagestyle{fancy}
\fancyhead[L]{{\large\bf{0801CS211050}}}
\fancyhead[R]{{\large\bf{karina Rajawat}}}
\section{welcome to karish traveles}
\section{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
\section{function}
\subsection{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 lo,mgin 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


\subsection{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

\subsection{boardingdestination()}

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

\subsection{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


\subsection{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
oherwise the code will exit because you entered the wrong otp
```

\subsection{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

\subsection{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

\subsection{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

\subsection{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

\subsection{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

\section{THANKS FOR CHOOSING THE KARISH TRAVELLES}
\\
\section{CODE}
```
\begin{lstlisting}[style=chstyle,language=C]
//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 arrive
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);
        switch��
        {
                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 offline
void paymentmode()
{
        int mode;
        char ch;
        printf("please choose the type of payment press 1 for online
payment otherwise offline\n");
        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 p for phone pay and others for others\n");
                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 busy
        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;
}
}
\end{lstlisting}
\section{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 . . .\\
\\
\\
\\
\section{PYTHON CODE}
\\
\\
\\
\begin{lstlisting}
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 for phonepay\n");
        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 c to continue\n")
        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 coming\n")
        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()
\end{lstlisting}
\section{Profiling in c language}
\begin{figure}
    \centering
    \includegraphics[width=\linewidth]{prof1.png}
    \includegraphics[width=\linewidth]{prof2.png}
    \includegraphics[width=\linewidth]{prof3.png}
    \label{fig:my_label}
\end{figure}
\\
\begin{figure}
    \centering
    \includegraphics[width=\linewidth]{prof4.png}
    \includegraphics[width=\linewidth]{prof5.png}
    \includegraphics[width=\linewidth]{prof6.png}
    \label{fig:my_label}
\end{figure}
\\
\section{Debugging in c language}
\begin{figure}
    \centering
    \includegraphics[width=\linewidth]{debugging 1.png}
    \includegraphics[width=\linewidth]{debugging2.png}
    reason = error present in the code is that it is not taking the input
of bike or auto
    \label{fig:my_label}
\end{figure}
```