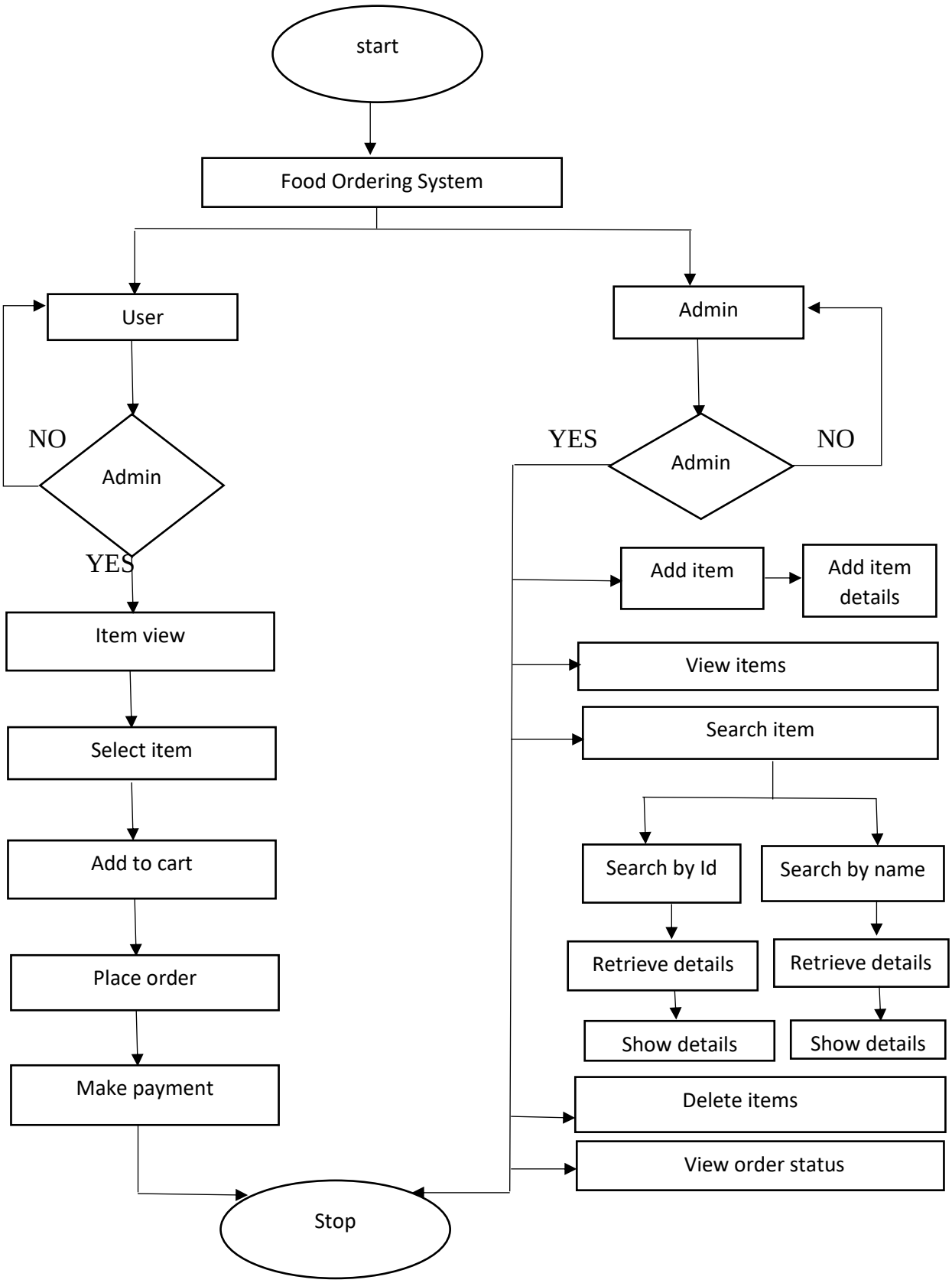
1. INTRODUCTION

The project "FOOD ORDERING SYSTEM" provides customers an easy way of ordering food. It is a simple project developed using c language the project connects with different customers. The project contains an admin and user side. The system also allows to quickly and easily manage an online menu which customers can browse and use to place orders with just few clicks. It greatly simplifies the ordering process for both the customer and the restaurant. System presents an interactive and up-to-date menu with all available options in an easy-to-use manner. Customer can choose one or more items to place an order. Customer can view all the order details in the cart before checking out. This system allows canteen employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion. In today's age of fast food and take-out, many canteens have chosen to focus on quick preparation and speedy delivery of orders rather than offering a rich dining experience. Until very recently, all of these delivery orders were placed to the waiters or over the phone, but there are many disadvantages to this system, including the inconvenience of the customer needing to have a physical copy of the menu, lack of a visual confirmation that the order was placed correctly, and the necessity for the canteen to have an employee answering the phone and taking orders. What, we propose is a Food Ordering System, which is a technique of ordering foods online applicable in any food delivery industry**.**

2. OBJECTIVES

The project "FOOD ORDER SYSTEM" is a website designed primarily for use in the food delivery industry. The main Objective of this system that it allows hotels and restaurants to increase scope of business by reducing the labour cost involved. The system also allows to quickly and easily manage an online menu which customers can browse and use to place orders with just few clicks. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, price and extremely simplified navigation for the order Food ordering system that I am proposing here, it greatly simplifies the ordering process for both the customer and the restaurant. Restaurant employees then use these orders through an easy to navigate graphical interface for efficient processing. The purpose of Food Ordering System is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, so that their valuable data can be stored for a longer period with easy accessing and manipulation of the same.

3. FLOWCHART


start
Food Ordering System
User
Admin
NO
Admin
YES
YES
Admin
NO
Add item
Add item details
Item view
View items
Select item
Search item
Add to cart
Search by Id
Search by name
Place order
Retrieve details
Retrieve details
Make payment
Show details
Show details
Delete items
View order status
Stop

4. MODULES DISCRIPTIONS

The project “FOOD ORDERING SYSTEM” has two modules:

4.1 User

4.2 Admin

4.1 USER

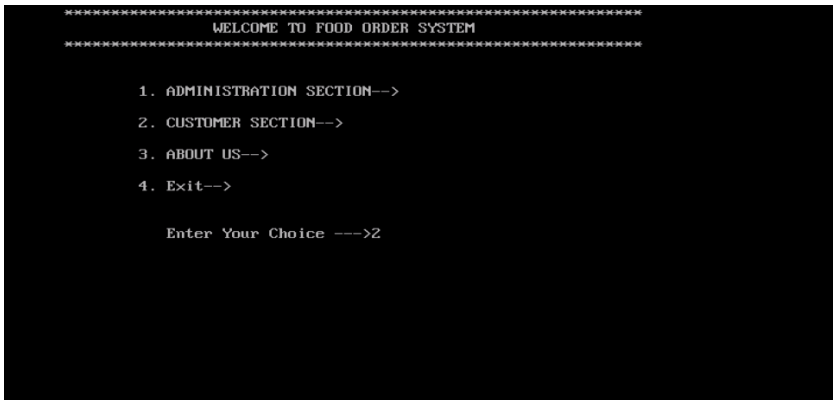
In this module user must has to login into the system by using his/her username and password and then user can choose one or more items to place an order and user can view all the order details in the cart before checking out. At the end, customer gets order confirmation details. Once the order is placed it is entered in the file system. From here, the user can view their orders list. Within this application, all items in the order are displayed, along with their corresponding options and delivery details.

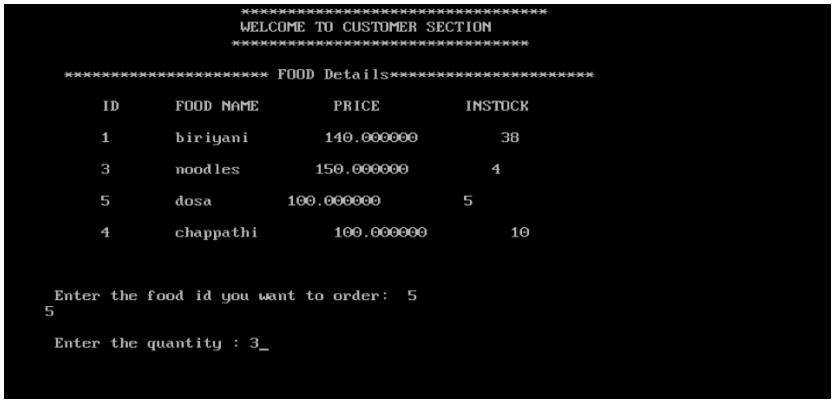
4.2 ADMIN

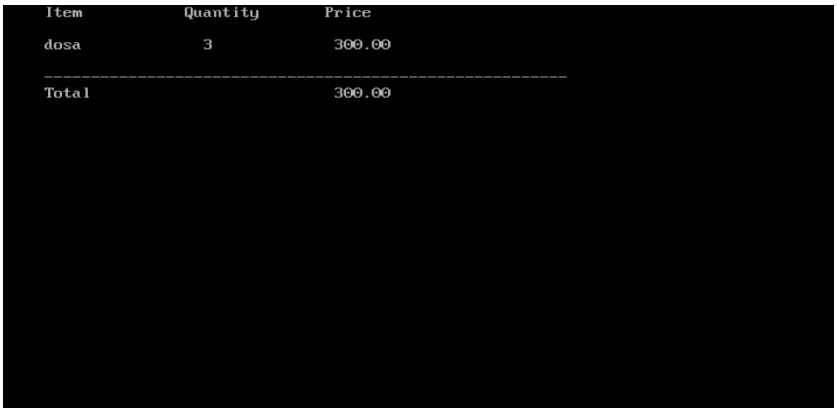
On the other hand, an admin panel is a must for food ordering system project where it allows control of whole system. Similarly, in this project an admin has all the access to the system. Admin panel also contain login page. Admin can view the customer details, food item, stock, orders and manage them accordingly. All the managements like editing site contents, updating food items, adding food items and check order status can be managed from the admin side.

5. INPUT AND OUTPUT

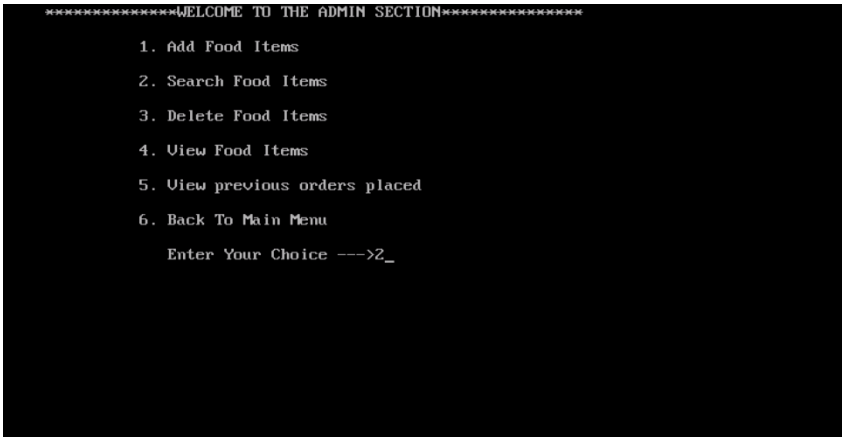
Screenshots:

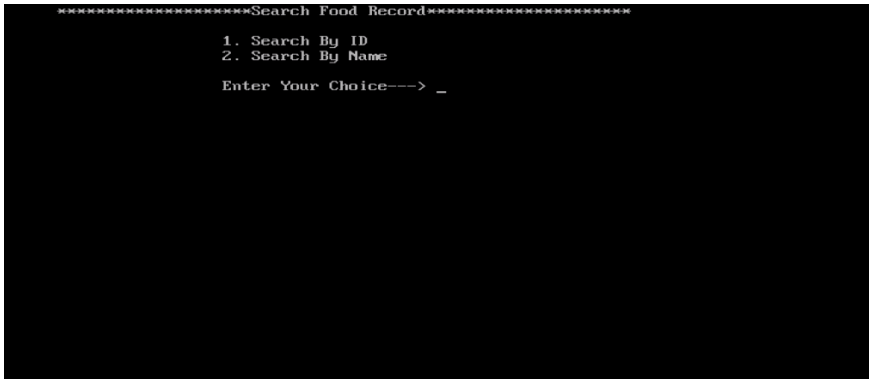


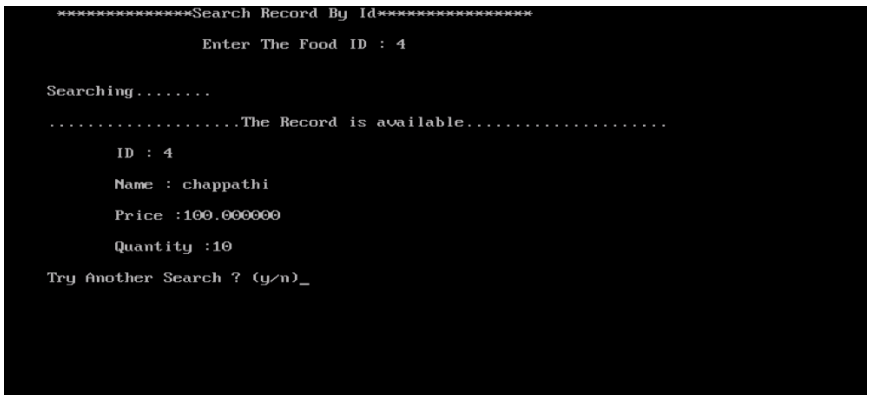

WELCOME TO CUSTOMER SECTION
FOOD Details
ID FOOD NAME PRICE INSTOCK
1 biriyani 140.000000 38
3 noodles 150.000000 4
5 dosa 100.000000 5
4 chappathi 100.000000 10
Enter the food id you want to order: 5
5
Enter the quantity : 3


Item Quantity Price
dosa 3 300.00
Total 300.00


WELCOME TO FOOD ORDER SYSTEM
1. ADMINISTRATION SECTION-->
2. CUSTOMER SECTION-->
3. ABOUT US-->
4. Exit-->
Enter Your Choice --->1


WELCOME TO THE ADMIN SECTION
1. Add Food Items
2. Search Food Items
3. Delete Food Items
4. View Food Items
5. View previous orders placed
6. Back To Main Menu
Enter Your Choice --->2





6. CONCLUSION

The main advantage of this system is that it greatly simplifies the ordering process for both the customer and the canteen. When the customer visits the ordering webpage, they are presented with an interactive and up-to date menu, complete with all available options and dynamically adjusting prices based on the selected options. A food ordering system is developed where the customers can make an order for the food and avoid the hassles of waiting for the order to be taken by the waiter. Using the application, the end users can login and read the E-menu card and select the food from the e-menu card to order food online. Once the customer selects the required food item the chef will be able to see the results on the screen and start processing the food. This application nullifies the need of a waiter or reduces the workload of the waiter. The advantage is that in a crowded restaurant there will be chances that the waiters are overloaded with orders and they are unable to meet the requirements of the customer in a satisfactory manner. In conclusion an online food o places like college cafeteria, etc. This project can later be expanded on a larger scale. It is developed for restaurants to simplify their routine managerial and operational task and to improve the dining experience of the clients. ordering system is proposed which is useful in small family run restaurants as well as in places like college cafeteria, etc.

This project can later be expanded on a larger scale. It is developed for restaurants to simplify their routine managerial and operational task and to improve the dining experience of the clients.

7. REFERENCE

Web sites:

- https://en.wikipedia.org
- https://www.gooogle.com

Book:

- Schaum's Outline of Programming With C, Byron Gottfried 4rth Edition, Mcgraw-Hill
- Programming in Ansi C, E. Balagurusamy, Eighth Edition, Mcgraw Hill Education(2017).
- The C Programming Language, Brian W. Kernighan And Dennis M. Ritchie 2nd Edition, Prentice Hall Of India (2015).

8. APPENDIX

Source code:

```
#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

void returnfunc(void);

void mainmenu(void);

void administration(void);

void customer(void);

void addrecord(void);

void deleterecord(void);

void searchrecord(void);

void viewrecord(void);
```

```
void details(void);
void aboutus(void);
//void Password(void);
int getdata();
struct employee
{
        char name[30];
        int id;
        int stock;
float price;
int quantity;
};
struct employee e;
FILE *fp,*ft,*dp,*dt;
int s;
char findrecord;
int again;
int quantity;
double total=0;
int t;
//char password[10]="foodiegoodie";
int main()
{
   mainmenu();
```

```
  //details();
  //customer();
   return 0;
}
/*void delay(unsigned int mseconds)
{
 clock_t goal = mseconds + clock();
 while (goal > clock());
}*/
void mainmenu(void)
{
int choice;
system("cls");
printf("  ************************************************************\n");
printf("                WELCOME TO FOOD ORDER SYSTEM\n");
printf("  ************************************************************\n\n\n");
printf("          1. ADMINISTRATION SECTION--> \n\n          2. CUSTOMER SECTION--> \n\n          3. ABOUT US--> \n\n          4. Exit--> \n\n\n          Enter Your Choice --->");
scanf("%d",&choice);
if(choice==1)
{
administration();
}
else if(choice==2)
```

```
{
   details();
}
else if(choice==3)
{
aboutus();
}
else if(choice==4)
{
system("cls");
printf("\n\n\n");
printf("**********************************THANKYOU**************************************\n");
getch();
exit(0);
}}
void administration(void)
{
//Password();
int n;long int wait;
FILE *view;
char viw;
system("cls");
printf("***************WELCOME TO THE ADMIN SECTION***************\n\n");
```

```
printf("1. Add Food Items\n\n 2. Search Food Items \n\n 3. Delete Food Items\n\n
4. View Food Items\n\n 5. View previous orders placed\n\n 6. Back To Main Menu
\n\n Enter Your Choice --->");

scanf("%d",&n);

printf("\n\n");

//printf("In progress :");

 /*for(wait=0;wait<=100000;wait++)

{

printf("\rIn progress : %d",wait/1000);

}*/

printf("\n\n");

if(n==1)

{

addrecord();

}

else if(n==2)

{

searchrecord();

}

else if(n==3)

{

deleterecord();

}

else if(n==4)

{
```

```
viewrecord();
}
else if(n==5)
{
view = fopen("view.txt","r");
while((viw=fgetc(view))!=EOF)
{
  printf("%c",viw);
}
fclose(view);
returnfunc();
getch();
  }
else if(n==6)
{
system("cls");
mainmenu();
}
else
{
printf("Wrong Input !! PLease Re-enter The Correct Option");
if(getch())
administration();
}}
```

```
void addrecord(void)
{
system("cls");
fp=fopen("view3.txt","a+");
if(getdata()==1)
{
fseek(fp,0,SEEK_END);
fwrite(&e,sizeof(e),1,fp);
fclose(fp);
printf("\n\n");
printf("The Food Detail Is Successfully Saved ! !\n\n");
printf("Save any more?(Y / N): ");
if(getch()=='n')
administration();
else
system("cls");
addrecord();
}}
void deleterecord(void)
{
 int d;
char another='y';
system("cls");
while(another=='y')  //infinite loop
```

```
{
system("cls");
printf("Enter The FOOD ID To Delete :");
scanf(" %d",&d);
fp=fopen("view3.txt","r+");
rewind(fp);
while(fread(&e,sizeof(e),1,fp)==1)
{
if(e.id==d)
 {
printf("\n\n");
printf(" .....The FOOD Record Is Available.....\n\n");
printf("          Food Name Is %s\n\n",e.name);
printf("          Food Price Is %f\n\n",e.price);
findrecord='t';
 }}
if(findrecord!='t')
{
 printf(" .....No record is found modify the search.....\n\n");
 if(getch())
administration();
}
if(findrecord=='t' )
{
```

```
printf("Do You Want To Delete THe Record ? (Y/N)\n ");
if(getch()=='y')
  {
ft=fopen("test.txt","w");  //temporary file for delete
rewind(fp);
while(fread(&e,sizeof(e),1,fp)==1)
{
if(e.id!=d)
{
fseek(ft,0,SEEK_CUR);
fwrite(&e,sizeof(e),1,ft); //write all in tempory file except that
} }
fclose(ft);
fclose(fp);
remove("view3.txt");
rename("test.txt","view3.txt"); //copy all item from temporary file to fp except that
 //fp=fopen("view3.txt","r");    //we want to delete
if(findrecord=='t')
{
printf("       THE RECORD IS SUCCESSFULLY DELETED.\n\n");
printf("       Delete Another Record ? (Y/N) : ");
}  }
else
administration();
```

```
fflush(stdin);
another=getch();
}}
administration();
}
void searchrecord(void)
{
  int d;
  system("cls");
  printf(" **********Search Food Record**********\n\n");
 printf("              1. Search By ID\n");
 printf("              2. Search By Name\n\n");
 printf("              Enter Your Choice---> ");
 fp=fopen("view3.txt","r"); //open file for reading propose
 rewind(fp);   //move pointer at the begining of file
 switch(getch())
 {
  case '1':
{
system("cls");
printf(" **********Search Record By Id**********\n\n");
printf("              Enter The Food ID : ");
scanf(" %d",&d);
printf("\n\n");
```

```
printf("Searching.....");
while(fread(&e,sizeof(e),1,fp)==1)
{
if(e.id==d)
{
printf("\n\n");
printf(".....The Record is available.....\n\n");
printf("       ID : %d\n\n",e.id);
printf("       Name : %s\n\n",e.name);
printf("       Price :%f\n\n",e.price);
printf("       Quantity :%d\n\n",e.quantity);
findrecord='t';
}}
 if(findrecord!='t')  //checks whether conditiion enters inside loop or not
{
printf("\aNo Record Found\a");
}
printf("Try Another Search ? (y/n)");
if(getch()=='y')
searchrecord();
else
administration();
break;
 }
```

```
case '2':
{
int d=0; char s [15];
system("cls");
 printf(" **********Search Food By Name**********\n\n")
 printf("              Enter Food Name : ")
scanf(" %s",s);
while(fread(&e,sizeof(e),1,fp)==1)
{
if (strcmp (e.name, (s)) ==0) //checks whether a.name is equal to s or not
{
printf("  .....The Record is available.....\n\n\n");
 printf("       ID : %d\n\n",e.id);
 printf("       Name : %s\n\n",e.name);
 printf("       Price :%f\n\n",e.price);
 printf("       Quantity :%d\n\n",e.quantity);
 d++; } }
 if(d==0)
{
printf("\aNo Record Found\a");
}
printf("Try Another Search ? (Y/N)");
if(getch()=='y')
 searchrecord();
```

```
else
administration();
break;
}
default :
getch();
searchrecord();
}
fclose(fp);
}
void viewrecord(void)
{
system("cls");
printf("  ********************** FOOD Details**********************\n\n");
printf("      ID     FOOD NAME        PRICE         INSTOCK\n\n");
fp=fopen("view3.txt","r");
while(fread(&e,sizeof(e),1,fp)==1)
{
printf("      %d\t",e.id);
printf("      %s\t",e.name);
printf("      %f\t",e.price);
printf("      %d\t",e.quantity);
printf("\n\n");
}
```

```
 fclose(fp);
 returnfunc();
}
void returnfunc(void)
{
   {
     printf(" Press ENTER to return to main menu");
    }
    if(getch()==13) //allow only use of enter
    administration();
  else
  goto e;
}
int checkid(int c)  //check whether the record is exist in list or not
{
rewind(fp);
while(fread(&e,sizeof(e),1,fp)==1)
if(e.id==c)
return 0;  //returns 0 if employee exits
return 1; //return 1 if it not
}
int getdata()
{
//*int t;
```

```
printf("       FOOD ID :\t");
scanf("%d",&t);
if(checkid(t)==0)
{
printf("\n\n");
printf("\a  The  Record Already Exists !!!\a");
getch();
mainmenu();
return 0;
}
e.id=t;
printf("       FOOD Name : ");
scanf("%s",e.name);
printf("       Price :");
scanf("%f",&e.price);
printf("       Quantity :");
scanf("%d",&e.quantity);
return 1;
}
void customer(void)
{
char ch[5],fname[30];
FILE *bl;
do
```

```
{
 int i,qty,test=0,fqty,qua;
 float amount;
 FILE *bi,*up,*wrt;
 system("cls");
 printf("          **********\n      WELCOME TO CUSTOMER SECTION\n                                **********\n\n");
 printf("  ********** FOOD Details**********\n\n");
 printf("     ID     FOOD NAME       PRICE       INSTOCK\n\n");
 fp=fopen("view3.txt","r");
  // ptr=fopen("view.txt","r");
while(fread(&e,sizeof(e),1,fp)==1)
   {
 printf("      %d",e.id);
 printf("       %s",e.name);
 printf("        %f", e.price);
 printf("         %d", e.quantity);
 printf("\n\n");
    }
 fclose(fp);
 printf("\n\n Enter the food id you want to order:  ");
 scanf("%d",&i);
 bi=fopen("view3.txt","r");
 rewind(bi);
```

```
while(fread(&e,sizeof(e),1,bi)==1)
   {
if(i==e.id)
 {
 test=1;
 printf("%d",e.id);
 printf("\n\n Enter the quantity : ");
 scanf("%d",&qty);
 if(qty<=e.quantity)
 {
fqty=e.quantity-qty;
strcpy(fname,e.name);
amount=e.price*qty;
qua=qty;
}
else
printf("Insufficient Quantity\n");
 }  }
fclose(bi);
up=fopen("view3.txt","r");
wrt=fopen("temp.txt","w");
 if(test==1)
      {
rewind(up);
```

```
while(fread(&e,sizeof(e),1,up)==1)
   {
 if(i==e.id)
 {
e.quantity=fqty;
  }
fseek(wrt,0,SEEK_CUR);
fwrite(&e,sizeof(e),1,wrt);
 }
fclose(up);
fclose(wrt);
remove("view3.txt");
 rename("temp.txt","view3.txt");
 bl=fopen("bill.txt","a");
 fprintf(bl,"%d %s %d %f\n",i,fname,qua,amount);
  fclose(bl);
  }
 else if(test==0)
 {
 printf("Invalid Id\n");
 }
printf("Do you want to order more   :  ");
scanf("%s",ch);
 }
```

```
while(strcmp(ch,"y")==0);
getch();
}
void details(void)
{
char name1[20];
char name2[20];
long long int phone;
char address[40];
char landmark[30];
float total=0;
FILE *cust,*bi;
clrscr();
printf("Please Give Your Contact Details \n");
printf(" First Name : ");
scanf("%s",name1);
printf("Last Name : ");
scanf("%s",name2);
printf("Phone : ");
scanf("%lld",&phone);
printf("Address : ");
scanf("%s",address);
printf("Landmark : ");
scanf("%s",landmark);
```

```
printf("\n\n");

customer();

printf("Your Entered Details Are --->\n");printf("  -->First Name :  %s\n  -->Last Name  :  %s\n  -->Phone  :%lld  \n  -->Address  :%s  \n  -->Landmark  :%s  \n",name1,name2,phone,address,landmark);

printf("\n\n");

clrscr();

bi=fopen("bill.txt","r");

printf("Item  Quantity  Price\n\n");

while(fscanf(bi,"%d %s %d %f",&e.id,e.name,&e.quantity,&e.price)!=EOF)

 {

printf("%s  %d  %.2f\n",e.name,e.quantity,e.price);

total+=e.price;

}

cust = fopen("view.txt","a");

fprintf(cust,"Order Placed By : %s %s\nPhone number : %lld\n",name1,name2,phone);

fclose(cust);

fclose(bi);

remove("bill.txt");

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

printf("Total  %.2f",total);

getch();

clrscr();

printf("**********************************************************************************************\n");
```

```
printf("       Your Order Will Be At Your Door In 30 minutes.\n");

printf("                  .....HAPPY ORDERING.....\n");

printf("**********************************************************************
**********\n");

printf("Press Any To The MainMenu.");

if(getch())

mainmenu();

}

void aboutus(void)

{

system("cls");

printf("PEOPLE BEHIND THIS PROJECT :\n\n  -->chinchu\n\n  -->reshma\n\n  -->pooja\n\n
we providing an easy way to order food items\n\n  **********THANK
YOU**********");

printf("\n\n");

printf("    Press Any Key To Go Back.");

if(getch())

mainmenu();

}
```