National University of Computer & Emerging Sciences Karachi Campus

Subject: **Programming Fundamentals**

Section: **BCY-1A**

Batch: **Freshmen (Fall 2023)**

Lab Instructor: **Muhammad Nouman Hanif**

Project Name:

ONLINE BAKERY SHOP

Group Members:

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Introduction:

We plan to create an online Bakery shop that sells various bakery items including cakes, nimco, biscuits, bread, water and birthday items like balloons etc.

Background:

We had initially chosen a restaurant management system but when we found out that there was another group that had chosen this as their project, we switched to an online bakery shop system called “Heavenly Bites”.

In this project, our research procedure was that our system name was researched from an article of bakeries, while how to manage an online system was also researched to gather some ideas from **“UNITED KING”** bakery. We select this management system for our project so that we can be able to in future can manage any type of system we want to.

Project Specification

Features for Administrator (Owner)

- Ability to create a new account for a customer
- to allow refill or update of a customer's digital wallet
- view profits and total money made by the shop
- view review and feedback

Features for Customer

- view digital wallet balance
- buy deals and discounted items
- view menu offered by the shop
- The option of choosing from many flavors and sizes for bakery items they may be interested in purchasing (eg. 2 pounds Strawberry cheesecake)
- Ability to set quantity on desired items.
- prompt to the user to refill wallet if order costs greater than the balance in the wallet
- transfer of money from user's wallet to the shop after placing an order
- View reviews
- View receipts
- give feedback

Problem Analysis

Many customers, especially our senior citizens, refrain from online transactions, as they fear that giving their bank or credit card details may put them at risk of being hacked or having their information stolen. As a result of this paranoia, they are either completely deprived of the convenience of delivery service, or choose the cash on delivery option, which is being removed by most online stores as the world moves closer to digital financing.

Solution Design

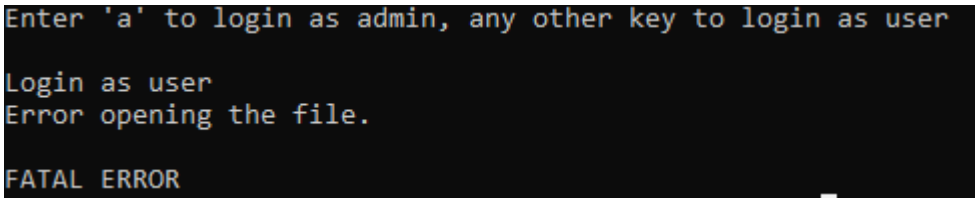
Framework: we will have 3 txt files made by c filing; one containing the shop and administrator's information (username, password, shop balance etc), other containing the information for all the customers. The 3rd one will contain all reviews.

an existing user first enters their username and password, upon matching, they can access their account and navigate through the menu to add desired items to cart as well as specify their quantity, after applying discount (if eligible) the total amount is then deduced from their wallet (wallet balance read from txt file) and transferred to the shop and both the files are then updated upon completing the transaction.

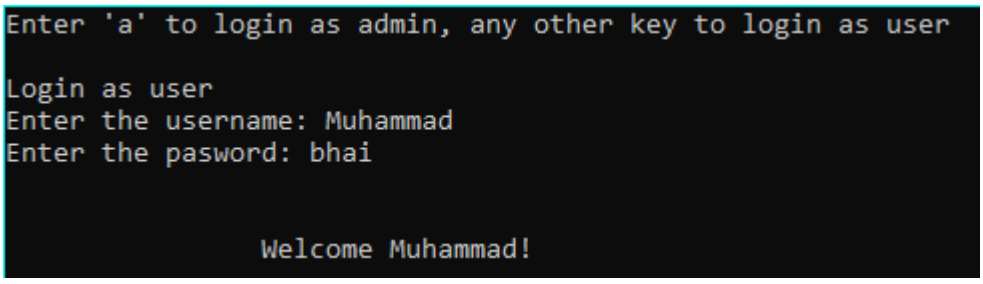
TESTING

Login Errors

At first our program was crashing when the user wanted to login



This was because we had a different file called user.txt in our system, to resolve this issue, we renamed to files such that they would not clash with any other existing file on a computer system. We renamed the files to (myusers, myadm etc). The login function now worked correctly.



Crashing menu

When we entered a wrong input in the program by accident, the program crashed as a character was being taken in place of an input. Hence, we made the program foolproof, replacing the integer datatypes of switch case with characters:

```
    printf("Enter your choice: ");
    scanf("%c", &choice);

    switch (choice) {
        case '1':
            printf("\nMenu:\n");
            printf("1. Cakes\n");
            printf("2. Bakery Biscuits\n");
            printf("3. Bread\n");
            printf("4. Extras\n");
            printf("Enter your choice: ");
            scanf("%c", &subChoice);
```

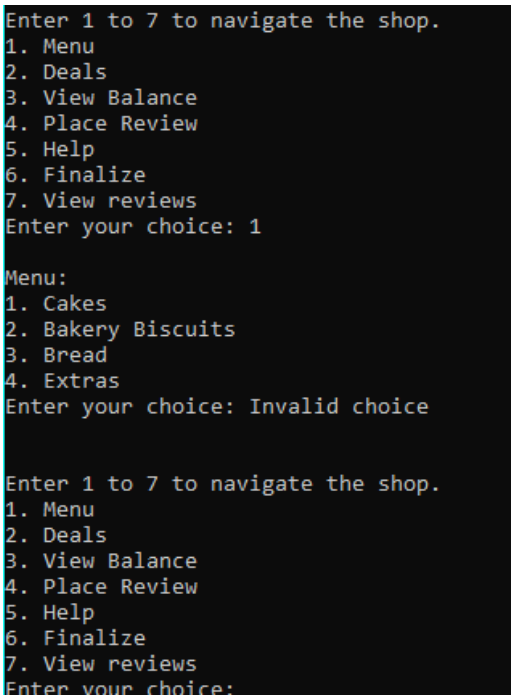
```
Enter 1 to 7 to navigate the shop.
1. Menu
2. Deals
3. View Balance
4. Place Review
5. Help
6. Finalize
7. View reviews
Enter your choice: g

Invalid input, expect errors.
```

And now our program does not crash upon wrong input, even prompting to the users that wrong input may cause errors, but even if wrong input is given, the program will just repeat that iteration, and remain fully functional.

Skipping input

Often times our system would skip input and go to the next iteration

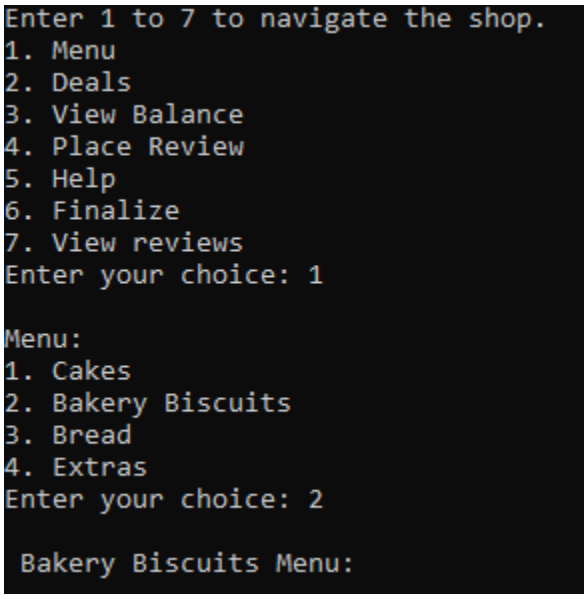


then we remember what our instructor taught us, after taking a character as input, the compiler often has the newline character \n in the input window, so when another input is needed, we it just takes that \n as input. So to fix this we added a space before each %c so that the newline character is consumed by the space and the user input is taken.

```
scanf(" %c", &choice);

switch (choice) {
    case '1':
        printf("\nMenu:\n");
        printf("1. Cakes\n");
        printf("2. Bakery Biscuits\n");
        printf("3. Bread\n");
        printf("4. Extras\n");
        printf("Enter your choice: ");
        scanf(" %c", &subChoice);
```

And now our code worked properly.



Project Breakdown Structure

- **Talal:** Functions and Filing operations were handled by him as he made login interface and managed the reviews section.

- **Faiq:** Customer support help queries and made specials and attractive deals for the customers. In addition to he has also made the final pdf file by following the rules of the Lab instructor.

- **Sami:** He using the switch cases managed the whole menu and according to customers mind level added carefully the specified and attractive products. He also made the receipt and ran the final code tests

TIMELINE:

day 1-2: Login infrastructure (Talal)

day 2-3: User Menu (Sami)

day 2-3: Deals and HELP (Faiq) , admin function (Talal)

day 3-4: calculation code (Sami)

day 4-6: reviews (Talal), receipt (Sami)

day 6-7: testing (Faiq) ,Debugging (Talal & Sami) , Pdf file (Faiq)

day 7-8: Finalization, submission.

Results

Note:

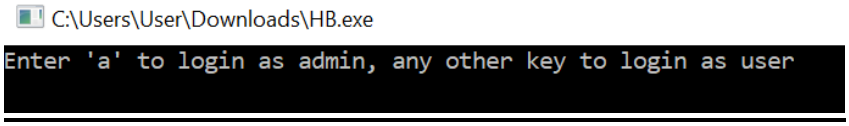
- First of all there will be a heading/title of what we are talking about then there will be screenshot of the topics related code (source code) and then there will be screenshot of console(output) related to topic. First we will discuss about users input and output then we will discuss about admins input and output.

Login Pathway:

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
FILE *ptr; char rando[20],tempo[5];
char login(char); void adminfunc(); int Calcbalance(char); void balanceupd(char,int,int
int flag,cou=-1; //flag here identity of admin or user (1 or 2)

struct reci{
    int pri[10],quan[10];
    char name[10][25];
};
int main()
{
int feedback, balance, amount=0, newb=0;
struct reci r;
char ch1,yesorno,feedname[20],review[200],reci,itemrev;
 printf("Enter \'a\' to login as admin, any other key to login as user\n");
    ch1= getch();
    char id=login(ch1);
    if(ch1=='a')
    adminfunc();  //not passing id since all admins work with the same data
    else if(id=='0')
    printf("\nFATAL ERROR");
    else
    balance=Calcbalance(id);
```

Output:



ID:

```
/the login function
har login(char ch1)

   struct creds{

char uname[20], pass[20], ans[20], ans2[20];
cr;

char iden;


   for(;;){
   iden='0';
   flag=1;
   if(ch1=='a')
   {
rintf("\nLogin as admin\n");
   ptr=fopen("myadm.txt","r+"); }
   else
   {
rintf("\nLogin as user\n");
   ptr=fopen("myusers.txt","r+"); }

f (ptr == NULL) {
      printf("Error opening the file.\n");
```

```
        return '0';
    }

        while(flag)
        {
          fscanf(ptr,"%s",rando);
          if(strcmp(rando,"-USER/PASS-")==0)
          break;
}


    printf("Enter the username: ");
    gets(cr.uname);
    printf("Enter the pasword: ");
    gets(cr.pass);

while (flag){
    fscanf(ptr,"%s %s",cr.ans,cr.ans2);
    iden++;
    if(strcmp(cr.ans,cr.uname)==0 && strcmp(cr.ans2,cr.pass)==0){
    printf("\n\n\t\tWelcome %s!\n\n",cr.uname);
    fclose(ptr);
    return iden;
    }
    else if(strcmp(cr.ans,"***")==0 && strcmp(cr.ans2,"***")==0){

    printf("Invalid username or password. try again\n");
    fclose(ptr);
    flag=0;
        }
    }
  }
```

Output:

For User:

```
Login as user
Enter the username: tester
Enter the pasword: 123


                Welcome tester!
```

Introduction View For User:

```
    char choice, subChoice, cakeChoice, extraChoice, breadChoice, dealChoice;
    int quantity , biscuitQuantity, breadQuantity,mytot=0;
    flag = 1;

    int extrasQuantity,bread_amount=0, extras_amount=0, cake_amount=0, biscuit_amount=0,deal_amount=0;
    char customerReview[100] ;

printf("\nWelcome to the Heavenly Bites Bakery\n");
    while (flag) {
        amount+=bread_amount + extras_amount + cake_amount + biscuit_amount+deal_amount;
         bread_amount=0; extras_amount=0; cake_amount=0; biscuit_amount=0,deal_amount=0;
        printf("\n\nEnter 1 to 7 to navigate the shop.\n");
        printf("1. Menu\n");
        printf("2. Deals\n");
        printf("3. View Balance\n");
        printf("4. Place Review\n");
        printf("5. Help\n");
        printf("6. Finalize\n");
        printf("7. View reviews\n");
        printf("Enter your choice: ");
        scanf("  %c", &choice);
```

Output:

```
 Your id no: 3                  Current Wallet Balance: 51600 Rs
Welcome to the Heavenly Bites Bakery


Enter 1 to 7 to navigate the shop.
1. Menu
2. Deals
3. View Balance
4. Place Review
5. Help
6. Finalize
7. View reviews
Enter your choice:
```

Selection Menu:

```
switch (choice) {
    case '1':
        printf("\nMenu:\n");
        printf("1. Cakes\n");
        printf("2. Bakery Biscuits\n");
        printf("3. Bread\n");
        printf("4. Extras\n");
        printf("Enter your choice: ");
        scanf(" %c", &subChoice);
```

```
Menu:
1. Cakes
2. Bakery Biscuits
3. Bread
4. Extras
Enter your choice:
```

Choices:

Cakes:

```
switch (subChoice) {
    case '1':
        cou+=1;
        printf("\nCakes Menu:\n");
        printf("1. Chocolate Cake (Rs 450) per pound\n");
        printf("2. Pineapple Cake (Rs 300) per pound\n");
        printf("3. Strawberry Cake (Rs 250) per pound\n");
        printf("4. Red Velvet Cake (Rs 500) per pound\n");
        printf("5. Coffee Cake (Rs 400) per pound\n");
        printf("Enter your choice: ");
        scanf(" %c", &cakeChoice);
        printf("\nEnter quantity in pounds (1,2,4 etc) ");
        scanf("%d", &quantity);
```

```
Cakes Menu:
1. Chocolate Cake (Rs 450) per pound
2. Pineapple Cake (Rs 300) per pound
3. Strawberry Cake (Rs 250) per pound
4. Red Velvet Cake (Rs 500) per pound
5. Coffee Cake (Rs 400) per pound
Enter your choice:
```

Bakery Biscuits:

```
case '2':
    cou+=1;
    printf("\n Bakery Biscuits Menu:\n");
    printf("\nprice of Biscuits is 300 per kg\n");
    printf("Enter quantity in kg (1,2,3 etc): ");
    scanf("%d", &biscuitQuantity);
```

```
 Bakery Biscuits Menu:

price of Biscuits is 300 per kg
Enter quantity in kg (1,2,3 etc):
```

Bread:

```
case '3':
    cou+=1;
    printf("\nBread Menu:\n");
    printf("1. Large Bread\n");
    printf("2. Small Bread\n");
    printf("Enter your choice: ");
    scanf(" %c", &breadChoice);

    if (breadChoice == 1 || breadChoice == 2) {
        printf("\nEnter quantity (1 to 10): ");
        scanf("%d", &breadQuantity);
```

```
Bread Menu:
1. Large Bread
2. Small Bread
Enter your choice:
```

Extras:

```
case '4':
    cou+=1;
    printf("\nExtras Menu:\n");
    printf("1. Water (Rs 100)\n");
    printf("2. crisps (Rs 50 per pack) \n");
    printf("3. balloons (Rs 100 per packet) \n");
    printf("4. nimco (Rs 100 per packet)");
    printf("Enter your choice: ");
    scanf(" %c", &extraChoice);

    printf("Enter quantity: ");
    scanf("%d", &extrasQuantity);
```

```
Extras Menu:
1. Water (Rs 100)
2. crisps (Rs 50 per pack)
3. balloons (Rs 100 per packet)
4. nimco (Rs 100 per packet)
Enter your choice:
```

Amounts Calculation:

Cakes:

```
switch (cakeChoice) {
    case '1':
        cake_amount = 450*quantity;
        printf("%d pound Chocolate Cake order Added to Cart. Price: Rs %d\n", quantity ,cake_amount);
        strcpy(r.name[cou],"Pound(s) Chocolate Cake");  r.pri[cou]=cake_amount; r.quan[cou]=quantity;

        break;
    case '2':
        cake_amount = 300*quantity;
        printf("%d pound Pineapple Cake order Added to Cart. Price: Rs %d\n", quantity, cake_amount);
        strcpy(r.name[cou],"Pound(s) Pineapple Cake"); r.pri[cou]=cake_amount; r.quan[cou]=quantity;
        break;
    case '3':
        cake_amount = 250*quantity;
        printf("%d pound Strawberry Cake order Added to Cart. Price: Rs %d\n", quantity, cake_amount);
      strcpy(r.name[cou],"Pound(s) Strawberry Cake"); r.pri[cou]=cake_amount; r.quan[cou]=quantity;
        break;
    case '4':
        cake_amount = 500*quantity;
        printf("%d pound Red Velvet Cake order Added to Cart. Price: Rs %d\n", quantity, cake_amount);
        strcpy(r.name[cou],"Pound(s) Red Velvet Cake"); r.pri[cou]=cake_amount; r.quan[cou]=quantity;
        break;
    case '5':
        cake_amount = 400*quantity;
        printf("%d pound Coffee Cake order Added to Cart. Price: Rs %d\n", quantity, cake_amount);
       strcpy(r.name[cou],"Pound(s) Coffee Cake");  r.pri[cou]=cake_amount; r.quan[cou]=quantity;
        break;
    default:
        printf("Invalid choice\n"); cou-=1;
}
```

```
1. Chocolate Cake (Rs 450) per pound
2. Pineapple Cake (Rs 300) per pound
3. Strawberry Cake (Rs 250) per pound
4. Red Velvet Cake (Rs 500) per pound
5. Coffee Cake (Rs 400) per pound
Enter your choice: 2

Enter quantity in pounds (1,2,4 etc) 2
2 pound Pineapple Cake order Added to Cart. Price: Rs 600
```

Biscuits:

```
biscuit_amount =  300 * biscuitQuantity;
printf("%d kg Biscuits order Added to Cart. Price: Rs %d\n", biscuitQuantity, biscuit_amount);
strcpy(r.name[cou],"Kg Biscuits"); r.pri[cou]=biscuit_amount; r.quan[cou]=biscuitQuantity;
break;
```

```
Bakery Biscuits Menu:

price of Biscuits is 300 per kg
Enter quantity in kg (1,2,3 etc): 3
3 kg Biscuits order Added to Cart. Price: Rs 900
```

Bread:

```
switch (breadChoice) {
    case '1':
        bread_amount =  100 * breadQuantity;
        printf("%d Large Bread order Added to Cart. Price: Rs %d\n", breadQuantity, bread_amount);
       strcpy(r.name[cou],"Large Bread"); r.pri[cou]=bread_amount; r.quan[cou]=breadQuantity;
        break;
    case '2':
        bread_amount =  60 * breadQuantity;
        printf("%d Small Bread order Added to Cart. Price: Rs %d\n", breadQuantity, bread_amount);
      strcpy(r.name[cou],"Small Bread"); r.pri[cou]=bread_amount; r.quan[cou]=breadQuantity;
        break;
    default:
        printf("Invalid choice\n"); cou-=1;
}

else {
  printf("Invalid choice\n");
```

```
Bread Menu:
1. Large Bread
2. Small Bread
Enter your choice: 2

Enter quantity (1 to 10): 3
3 Small Bread order Added to Cart. Price: Rs 180
```

Extras:

```
        switch (extraChoice) {
            case '1':
                extras_amount =  100 * extrasQuantity;
                printf("water order Added to Cart. Price: Rs %d\n" , extras_amount);
               strcpy(r.name[cou],"water"); r.pri[cou]=extras_amount; r.quan[cou]=extrasQuantity;
                break;
            case '2':
                extras_amount =  50 * extrasQuantity;
                printf("%d crisps order Added to Cart. Price: Rs %d\n", extrasQuantity, extras_amount);
              strcpy(r.name[cou],"crips"); r.pri[cou]=extras_amount; r.quan[cou]=extrasQuantity;
                break;
            case '3':
                extras_amount =  100 * extrasQuantity;
                printf("%d balloon packets order Added to Cart. Price: Rs %d\n", extrasQuantity, extras_amount);
                strcpy(r.name[cou],"balloon packets");  r.pri[cou]=extras_amount; r.quan[cou]=extrasQuantity;
                break;
            case '4':
                extras_amount =  100 * extrasQuantity;
                printf("%d nimco packets order Added to Cart. Price: Rs %d\n", extrasQuantity, extras_amount);
              strcpy(r.name[cou],"nimco packets");  r.pri[cou]=extras_amount; r.quan[cou]=extrasQuantity;
                break;
            default:
                printf("Invalid choice\n"); cou-=1;
        }
    break;

default:
    printf("Invalid choice\n");

reak;
```

```
Extras Menu:
1. Water (Rs 100)
2. crisps (Rs 50 per pack)
3. balloons (Rs 100 per packet)
4. nimco (Rs 100 per packet)
Enter your choice: 2
Enter quantity: 2
2 crisps order Added to Cart. Price: Rs 100
```

Deals With Amounts:

```
case '2':
    cou+=1;
    printf("\nDeals:\n");
    printf("1. Birthday Deal: Buy two pound chocolate cake \n and two packets of balloon in just Rs 1000 \n\n");
    printf("2. Heavenly Bites Special Offer: Buy pineapple three pound cake  \n and get 1 kg biscuits free \n\n");
    printf("3. Crumbly Delights: Buy two kg biscuits \n  and get 1 packet of nimco free \n\n");
    printf("4. Cake Couture: Buy 1 pound chocolate cake \n  and 1 pound pineapple cake in just Rs 650 \n\n");
    printf("Enter the Choice: ");
    scanf(" %c",&dealChoice);

     switch (dealChoice) {
                    case '1':
                        deal_amount = 1000;
                        printf("Birthday Deal order Added to Cart. Price: Rs %d\n" , deal_amount);
                       strcpy(r.name[cou],"Birthday Deal");  r.pri[cou]=deal_amount; r.quan[cou]=1;
                        break;
                    case '2':
                        deal_amount = 900;
                        printf("Heavenly Bites Special Offer order Added to Cart. Price: Rs %d\n",deal_amount);
                      strcpy(r.name[cou],"Special Offer"); r.pri[cou]=deal_amount; r.quan[cou]=1;
                        break;
                    case '3':
                        deal_amount = 600;
                        printf("Crumbly Delights order Added to Cart. Price: Rs %d\n",deal_amount);
                        strcpy(r.name[cou],"Crumbly Delights"); r.pri[cou]=deal_amount; r.quan[cou]=1;
                        break;
                    case '4':
                        deal_amount = 650;
                        printf(" Cake Courture order Added to Cart. Price: Rs %d\n",deal_amount);
                        strcpy(r.name[cou],"Cake Courture"); r.pri[cou]=deal_amount; r.quan[cou]=1;
                        break;
                    default:
```

```
Deals:
1. Birthday Deal: Buy two pound chocolate cake
 and two packets of balloon in just Rs 1000

2. Heavenly Bites Special Offer: Buy pineapple three pound cake
 and get 1 kg biscuits free

3. Crumbly Delights: Buy two kg biscuits
  and get 1 packet of nimco free

4. Cake Couture: Buy 1 pound chocolate cake
  and 1 pound pineapple cake in just Rs 650

Enter the Choice: 2
Heavenly Bites Special Offer order Added to Cart. Price: Rs 900
```

View Balance:

```
int Calcbalance(char id)
{
int balance;
char bal[9],index='0';

printf(" Your id no: %c \t\t\t",id);

ptr=fopen("myusers.txt","r+");

        while(1)
        {
          fscanf(ptr,"%s",rando);
          if(strcmp(rando,"-WalletRs-")==0)
          break;
}
while(index!=id)
        {
        index++;
          fscanf(ptr,"%s",bal);
}
balance=atoi(bal);  //using 'ascii to int' function of s
printf("Current Wallet Balance: %d Rs",balance);
fclose(ptr);
return balance;
}
void revfunc()  //the review function
```

```
Enter 1 to 7 to navigate the shop.
1. Menu
2. Deals
3. View Balance
4. Place Review
5. Help
6. Finalize
7. View reviews
Enter your choice: 3
 Your id no: 3                  Current Wallet Balance: 51600 Rs
```

Placing Review:

```c
void revfunc()  //the review function
{
    char line[200];
    int revind,currentRe=0,currentRat;;
                rev_again:
                printf("\n\n\t\tIndex of reviews\n");
                printf("1. Chocolate Cake\n");
                printf("2. Pineapple Cake\n");
                printf("3. Strawberry Cake\n");
                printf("4. Red Velvet Cake\n");
                printf("5. Coffee Cake\n");
                printf("6. Biscuits\n");
                printf("7. Large Bread\n");
                printf("8. Small Bread\n");
                printf("9. Water \n");
                printf("10. Nimko \n");
                printf("11. Balloons\n");
                printf("12. Bakery Management\n");
                printf("13. Delivery service\n");
                printf("14. Other\n");
                printf("Enter the review you want to see: ");
                scanf(" %d",&revind);
                if(revind>14 || revind<1)
                {
                    printf("Invalid choice.");
                    goto rev_again;
                }

ptr=fopen("myrev.txt","r+");
if (ptr == NULL) {
        printf("Error opening the file.\n");
        return;
```

```
Place Review:
Enter the name you want to appear as: user


                Index of reviews
1. Chocolate Cake
2. Pineapple Cake
3. Strawberry Cake
4. Red Velvet Cake
5. Coffee Cake
6. Biscuits
7. Large Bread
8. Small Bread
9. Water
10. Nimko
11. Balloons
12. Bakery Management
13. Delivery service
14. Other
Enter what you are reviewing: 1
Enter the review (max 200 words)
good

Review placed successfully.
```

Help:

```
case '5':
    printf("\n\t\t\tHELP\n");
    printf("\t\t ********** ABOUT US ********** \n\n Welcome to our bakery, where passion meets pastry perfection. Nestled in the heart 
     printf("haven for those with a sweet tooth and a penchant for artisanal treats. With a commitment to quality ingredients and time-honored rec
     printf("delectable delights that tantalize the taste buds. From flaky croissants to rich, velvety cakes, each creation is crafted with care a
      printf("invites you to savor the aroma of freshly baked goods while enjoying a moment of indulgence. Join us on a culinary journey where ever
       printf("of baking.\n\n\t\t********** General Info ********** \n\n");

    printf("Contact Us for any queries:\nCell# +92 3318406464 \nTel# 021 36350072 \n\nEmail:\nk232008@nu.edu.pk \nk232003@nu.edu.pk \nk232031@nu.e
    printf("\n\nAdress: R3F6+CW7, D.H.A. Phase 4 Defence Housing Authority, Karachi, Karachi City, Sindh 75500");
    printf("\n\nDelivery Updates\n+92 316587328 (phone)\n+92 331456266 (whatsapp only)\n\n");
    break;
```

```
                        HELP
                ********** ABOUT US **********

 Welcome to our bakery, where passion meets pastry perfection. Nestled in the heart of Karachi, our shop is a delightful

haven for those with a sweet tooth and a penchant for artisanal treats. With a commitment to quality ingredients and tim
e-honored recipes, we strive to create an array of
delectable delights that tantalize the taste buds. From flaky croissants to rich, velvety cakes, each creation is crafte
d with care and a dash of creativity. Our cozy atmosphere
invites you to savor the aroma of freshly baked goods while enjoying a moment of indulgence. Join us on a culinary journ
ey where every bite tells a story of dedication to the art
of baking.

              ********** General Info **********

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Adress: R3F6+CW7, D.H.A. Phase 4 Defence Housing Authority, Karachi, Karachi City, Sindh 75500

Delivery Updates
+92 316587328 (phone)
+92 331456266 (whatsapp only)
```

Finalization:

```
case '6':

printf("\nAre you sure you want to finalize order? (press 0 to confirm)\n");
    scanf("%d",&flag);
    if(!flag)
    {
    printf("\nFinal Order:\n");
     printf("Your ordered amount : %d Rs\n", amount);
    if (amount>balance)
    printf("You are %d Rs short in wallet balance, please have your balance updated by the admins\n",balance - amount);
    else
    newb= balance - amount;
    balanceupd(id,newb,amount);
    printf("\nyou have ordered!\n");
```

```
Enter your choice: 6

Are you sure you want to finalize order? (press 0 to confirm)
0

Final Order:
Your ordered amount : 1000 Rs

you have ordered!
```

Viewing Of Reviews:

```
ptr=fopen("myrev.txt","r+");
if (ptr == NULL) {
        printf("Error opening the file.\n");
        return;
    }
    printf("\n");
         while (fgets(line,sizeof(line),ptr)!=0)
         {

            if (sscanf(line,"** %d", &currentRat)==1)
          { //sscanf scans strings
            if (currentRat==revind)
            {
                currentRe=1;
                continue;
            }
            else currentRe=0;
          }
        if (currentRe==1&&line[0]!='^')
            printf("%s",line);
        else if(currentRe==1) printf("\n");
         }
    fclose(ptr);

                skip:
printf("\n\nPress any key to continue..\n");
                getch();
}
```

```
                Index of reviews
1. Chocolate Cake
2. Pineapple Cake
3. Strawberry Cake
4. Red Velvet Cake
5. Coffee Cake
6. Biscuits
7. Large Bread
8. Small Bread
9. Water
10. Nimko
11. Balloons
12. Bakery Management
13. Delivery service
14. Other
Enter the review you want to see: 2

Alex says
very Good taste




Press any key to continue..
```

Introduction View For Admin:

```c
void adminfunc()
{  char cho,feed;
while(1){

printf("\n\nWhat do you want to do.\n");
        printf("1. View profits\n");
        printf("2. View reviews\n");
        printf("3. View Feedbacks\n");
        printf("Or enter any other key to Exit\n");
        printf("Enter your choice: ");
        cho=getche();

if(cho=='1'){
char tprof[10];
ptr=fopen("myadm.txt","r+");
if (ptr == NULL) {
        printf("Error opening the file.\n");
        return;
    }
```

```
Login as admin
Enter the username: Faiq
Enter the pasword: 234


                Welcome Faiq!
```

Selection:

Viewing Profits:

```
        while(1)
        {
          fscanf(ptr,"%s",rando);
          if(strcmp(rando,"-PROFIT_EARNED-")==0)
          break;
}
fscanf(ptr,"%s",tprof);
printf("\nProfit accummilated so far: %s Rs",tprof);
fclose(ptr);
printf("\n\nPress any key to continue..\n");
            getch();
}
```

```
Enter your choice: 1
Profit accummilated so far: 298000 Rs

Press any key to continue..
```

Viewing Reviews:

```
} else if(cho=='2'){
  revfunc();
 }
```

```
Enter your choice: 2

               Index of reviews
1. Chocolate Cake
2. Pineapple Cake
3. Strawberry Cake
4. Red Velvet Cake
5. Coffee Cake
6. Biscuits
7. Large Bread
8. Small Bread
9. Water
10. Nimko
11. Balloons
12. Bakery Management
13. Delivery service
14. Other
Enter the review you want to see: 5

Daniyal says
Me and my family have become addicted to your coffee cakes.Keep it going heavenly Bites!



Press any key to continue..
```

Viewing Feedbacks:

```
else if(cho=='3'){
ptr=fopen("myusers.txt","r+");
        while(1)
        {
          fscanf(ptr,"%s",rando);
          if(strcmp(rando,"-Feedback-")==0)
          break;
}
while(!feof(ptr)){
    feed=fgetc(ptr);
putchar(feed);
}
fclose(ptr);
```

```
Enter your choice: 3
Asif rated the service 77/100
Bilal Hassan rated the service 99/100
Muhammad rated the service 89/100
Final tester rated the service 100/100
Hobo rated the service 100/100
Salman rated the service 19/100

TESTICAL rated the service 95/100
```

To continue:

```
                skip:
printf("\n\nPress any key to continue..\n");
            getch();
}
```

```
Press any key to continue..


What do you want to do.
1. View profits
2. View reviews
3. View Feedbacks
Or enter any other key to Exit
Enter your choice:
```

.txt Files:

Myusers:

```
-WalletRs-
5000
3000
52500
4000

*** ***

-USER/PASS-
Bilal hello123
Asif mybestfriend
tester 123
Muhammad bhai


*** ***

-Feedback-
Asif rated the service 77/100
Bilal Hassan rated the service 99/100
Muhammad rated the service 89/100
Final tester rated the service 100/100
Hobo rated the service 100/100
Salman rated the service 19/100
Laila rated the service 91/100
```

Myrev:

```
File  Edit  Format  View  Help
** 1
Mansha says
Indulgent and rich, this chocolate cake is a symphony of flavours and textures
^


** 9
Samuel says
God is good. So is this bakery's water :)
^


** 5
Daniyal says
Me and my family have become addicted to your coffee cakes.Keep it going heavenly Bites!
^


** 7
Nadir says
The bread was not fresh. All other items though, are as good as advertized
^


** 14
Salman says
Everytime I walk by the bakery in the morning, I can smell the most delightfull smells known to man, Its so refreshing!
^


** 14
Laila says
Not only is the online service amazing, but the physical shop too, Even the bathrooms are clean!
^
```

Myadm:

```
-USER/PASS-
Talal 123
Faiq 234
Sami 345
*** ***

-PROFIT_EARNED-
297000


-ORDERS FOR THE KITCHEN-

**********************************************************************

        5     Pound(s) Pineapple Cake
        2     Pound(s) Pineapple Cake
        1     Crumbly Delights


**********************************************************************

        5     Pound(s) Strawberry Cake
        1     Crumbly Delights
        4     Kg Biscuits

**********************************************************************
        3     Pound(s) Red Velvet Cake


**********************************************************************
        43    Pound(s) Strawberry Cake
        1     Special Offer


**********************************************************************
```

CONCLUSION

We made an Online Bakery called Heavenly Bites that sells various bakery items online. Our system has a login infrastructure and different functionality for admins and users.

A user can order from the menu, or from a deal. They can also view and place reviews. We also ask them for feedback on each of their order sessions so keep improving our system. Finally, they can also view receipts of their order if they want.

As for the admins, they can view total profits, view feedbacks, manually update a customer's wallet and view all the reviews that the customers have placed. The customers' orders are also saved in a txt file so that admins may forward it to the staff at the kitchen to view.

Our program automatically updates users wallet after a purchase, prompt them to refill wallet if they make a bigger purchase than they can afford.