COMPUTER SCIENCE PROJECT:

GROCERY STORE

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github.com/KorigamiK

INDEX

INDE.	X	2
CERT	TIFICATE	3
INTR	OUDUCTION	4
ACKN	NOWLEDGEMENT	5
USAG	GE EXAMPLES	6
•	Creating UserID for new customers:	6
•	Showing the Menus:	7
•	Selecting Items:	8
•	Proceding to checkout:	9
•	Getting feedback and giving vouchers:	10
•	Returning customers:	11
•	Buying items:	12
•	Applying Vouchers from previous visits:	14
•	Seeing the purchase history and collecting the bills of visits:	15
•	The database created:	15
SOUF	RCE CODE	18
•	Setup	18
•	Code	21
ENHA	ANCEMENTS	31
HARI	DWARE USED/ SOFTWARE USED	32
DIDII	IOCDADUV	22

CERTIFICATE

This is to certify that student Kushagra Lakhwani has successfully
completed the project Work entitled "Grocery Store Management
System." in the subject Computer Science laid down in the
regulations of CBSE for the purpose of Practical Examination
in Class XII to be held in Apeejay School on

Signature:

Date:

INTROUDUCTION

Grocery shoppers have high expectations: they want to experience welcoming surroundings, large product variety, value for money, sales efficiency and much more. The competition is intense and the margins small. That's why how you manage your daily operations can make or break your business.

Every food retailer needs to constantly face the complexities of handling a large and extremely varied product mix. Out-of-stock products are the most common cause for lost sales in the grocery business. At the same time, grocery products are often perishables, and can have very different life-cycles, thus further complicating ordering and inventory management.

Grocery retailers are also expected to provide high-quality, speedy service. Fast and efficient check-out is critical; each check-out line needs to keep moving while it processes many items per minute, under pressure.

A Software like this is crucial for any everyday grocery store or a café.

ACKNOWLEDGEMENT

I am extremely grateful to Mrs. Puja Malhotra, Teacher of Department of Computer Science for her able guidance and useful suggestions, which helped me in completing the project work, in time.

I would also like to thank all the teaching and non-teaching staff of Computer Science department who helped me directly or indirectly in the completion of this project.

Finally, yet importantly, I would like to express my heartfelt thanks to my beloved parents for their blessings, my friends/classmates for their help and wishes for the successful completion of this project.

USAGE EXAMPLES

Creating UserID for new customers:



New setup ? y/n: y

Are you already registered ? (Y/N): n

Enter your details

Enter your name: Superuser
Enter your phone number: 9

Invalid Phone No. :)(Your Phone number should contain 10 digits)

Please enter a valid Phone No: 9902463819

phone number verified

Enter your email address: superuser@gmail.com

Enter your address: 1 residency, Delhi

Enter the pincode of your area: 1190

Your Grocery Express Userid is GSSup9902

Enter your password: superman123

Please re-enter your password: ******

please renter your password

Renter your password: superman123

Password verified

Hi! GSSup9902

Please press enter

Showing the Menus:

Password verified

Hi! GSSup9902

Please press enter

+									
	Menu_1								
++									
Sno	Items	Price	Item_Code						
1 0	Lacinato Kale	H I 30	++ #GS000						
1	Baby Spinach	34	#GS001						
2	Cauliflower	23	#GS002						
3	Avocados	24	#GS003						
4	Apples	43	#GS004						
5	Strawberries	12	#GS005						
6	Organic Eggs	30	#GS006						
7	Kefir	34	#GS007						
8	Almond Milk	23	#GS008						
9	Yogurt	24	#GS009						
10	Sheep's Milk	43	#GS010						
4									

Menu_2							
Sno	SNACKS	Price	Item_Code				
0 1 2 3	Popcorn Hummus Dark Chocolate Dried Fruit	30 34 23 24	#GS011 #GS012 #GS013 #GS014				

What do you want to purchase, Sir? :

Selecting Items:

```
What do you want to purchase, Sir?: lacinato kale

Want something else, Sir(Y/N): y

What do you want to purchase, Sir?: hummus

Want something else, Sir(Y/N): y

What do you want to purchase, Sir?: popcorn

Want something else, Sir(Y/N): y

What do you want to purchase, Sir?: strawberries

Want something else, Sir(Y/N): y

What do you want to purchase, Sir?: curd

Sorry sir, We do not have Curd in stock yet, Leave your requests in the feedback section.

Want something else, Sir(Y/N): n

Do you want to continue shopping ? (y/n): n
```

Proceding to checkout:

Quantity of item Lacinato Kale: 23

Quantity of item Hummus: 50

Quantity of item Popcorn: 212

Quantity of item Strawberries: 11

S. NO.	NAME OF ITEMS (Price Per Item)				
1	Lacinato Kale (30)	23	18%	690	Rs.814.1999999999
2	Hummus (34)	50	18%	1700	Rs.2006.0
3	Popcorn (30)	212	18%	6360	Rs.7504.799999999
4	Strawberries (12)	11	18%	132	Rs.155.76
+	+				++

FREE TIP! Shop for Rs. 500 or more to get special discounts

Your total bill is Rs. 10481

Collect your recipt at the counter.

Thank you for the visit GSSup9902

Please Enter feedback and you can cllect your bill

Please tell us about your visit, suggestions, complaints or requests:

Getting feedback and giving vouchers:

```
FREE TIP! Shop for Rs. 500 or more to get special discounts

Your total bill is Rs. 10481

Collect your recipt at the counter.

Thank you for the visit GSSup9902

Please Enter feedback and you can cllect your bill

Please tell us about your visit, suggestions, complaints or requests:

Very good! but be explict about quantities.

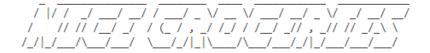
Thank you for you cooperation, we will get back to you as soon as possible

You are elegible for our gift voucher. Shop again to claim it.

Lookin' forward to you next visit!
```

Press enter to exit..

Returning customers:



New setup ? y/n: y

Are you already registered ? (Y/N): y

Please give your login details

Enter your userid: sdf

No userid found

Enter your userid: GSSup9902

UserID found

Enter you password: ******

Incorrect Password

Please type the correct password: ********

Password verified

Hi! Superuser

Please press enter

Buying items:

	Menu_1							
Sno	Items	Price	Item_Code					
0	Lacinato Kale	30	#GS000					
1	Baby Spinach	34	#GS001					
2	Cauliflower	23	#GS002					
3	Avocados	24	#GS003					
4	Apples	43	#GS004					
5	Strawberries	12	#GS005					
6	Organic Eggs	30	#GS006					
7	Kefir	34	#GS007					
8	Almond Milk	23	#GS008					
9	Yogurt	24	#GS009					
10	Sheep's Milk	43	#GS010					

Menu_2							
Sno	SNACKS	Price	Item_Code				
0 1 1	Popcorn Hummus Dark Chocolate	30 34 23	#GS011 #GS012 #GS013				
3	Dried Fruit	23 24 +	#GS013 #GS014 +				

What do you want to purchase, Sir? : cauliflower

Want something else, Sir(Y/N): y

What do you want to purchase, Sir? : yogurt

What do you want to purchase, Sir? : yogurt

Want something else, Sir(Y/N): y

What do you want to purchase, Sir? : organic eggs

Want something else, Sir(Y/N): y

What do you want to purchase, Sir? : apples

Want something else, Sir(Y/N): n

Do you want to continue shopping ? (y/n): n

Quantity of item Cauliflower: 50

Quantity of item Yogurt: 12

Quantity of item Organic Eggs: 6

Quantity of item Apples: 12

+					L
S. NO.	NAME OF ITEMS (Price Per Item)	QUANTITY	TAX	PRICE	EFFECTIVE PRICE
1	Cauliflower (23)	50	18%	1150	Rs.1357.0
2	Yogurt (24)	12	18%	288	Rs.339.84
3	Organic Eggs (30)	6	18%	180	Rs.212.399999999
4	Apples (43)	12	18%	516	Rs.608.88
+	.		+	+	

Applying Vouchers from previous visits:

S. NO.	NAME OF ITEMS (Price Per Item)	QUANTITY			
1	Cauliflower (23)	50	18%	1150	Rs.1357.0
2	Yogurt (24)	12	18%	288	Rs.339.84
3	Organic Eggs (30)	6	18%	180	Rs.212.3999999999
4	Apples (43)	12	18%	516	Rs.608.88
+					

Applying your voucher of Rs.41

Your total bill is Rs. 2477

Collect your recipt at the counter.

Thank you for the visit Superuser

Please Enter feedback and you can cllect your bill

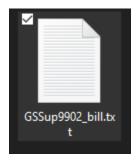
Please tell us about your visit, suggestions, complaints or requests: good thanks for the coucher Thank you for you cooperation, we will get back to you as soon as possible

You are elegible for our gift voucher. Shop again to claim it.

Lookin' forward to you next visit! Press enter to exit..

Here a voucher is given if the purchase if greater than or equal to Rs. 500/-

Seeing the purchase history and collecting the bills of visits:





The total payable amount is: Rs.10481/-

____Thank you for shopping with us !_____

		L				L	_
		NAME OF ITEMS (Price Per Item)		TAX	PRICE		•
Ì	1	Cauliflower (23)	50	18%			Ī
	2	Yogurt (24)	12	18%	288	Rs.339.84	ĺ
	3	Organic Eggs (30)	6	18%	180	Rs.212.399999999	
	4	Apples (43)	12	18%	516	Rs.608.88	

Congratulations!! You got discount of Rs.41 on you bill of Rs.2518 The total payable amount is: Rs.2477/-

The database created:

```
mysql> use kushagra_project;
Database changed
mysql> show tables;
  Tables_in_kushagra_project |
  ------+
  cust_details
   gifts
   menu_1
   menu_2
4 rows in set (0.02 sec)
mysql> select * from menu_1;
   Sno | Items | Price | Item_Code |
      0 | Lacinato Kale | 30 | #GS000

1 | Baby Spinach | 34 | #GS001

2 | Cauliflower | 23 | #GS002

3 | Avocados | 24 | #GS003

4 | Apples | 43 | #GS004

5 | Strawberries | 12 | #GS005

6 | Organic Eggs | 30 | #GS006

7 | Kefir | 34 | #GS007

8 | Almond Milk | 23 | #GS008

9 | Yogurt | 24 | #GS009

10 | Sheep's Milk | 43 | #GS010
      10 | Sheep's Milk
                                              43 | #GS010
11 rows in set (0.00 sec)
mysql> 🕳
```

```
mysql> select * from menu_2;
        SNACKS
                       | Price | Item_Code
 Sno
    0 I
        Popcorn
                            30
                                 #GS011
                            34
                                 #GS012
        Hummus
        Dark Chocolate
                                 #GS013
        Dried Fruit
                                 #GS014
                            24
 rows in set (0.00 sec)
nysql> select * from cust_details;
                                            EmailID
                                                                  | pincode | PhoneNO
 CustID
           Name
                        Address
                                                                                           pass
 ADMIN
             origami
                         asdf
                                              admin@asdf.com
                                                                       1234
                                                                              100
                                                                                           origami
                                              sdfjklsdfjkl
no@no.no
sup@g.com
 GSdfj0980
                                                                       3453
             dfjkla
                         sdjkl;
                                                                              0980980980
                                                                                           asdf
 GSorg5675
             orgiad
                         ononon
                                                                       4564
                                                                              5675748484
                                                                                           asdf
                                                                       3423
 GSsup9696
             superman
                         kdkd
                                                                              9696959494
                                                                                           kkk
 GSSup9902
             Superuser
                         1 residency, Delhi
                                              superuser@gmail.com
                                                                       1190
                                                                              9902463819
                                                                                           superman123
 GSult8989 | ultraman | this place
                                              ult.man@gmail.com
                                                                       4565 İ
                                                                              8989898989
                                                                                           ultra
 rows in set (0.00 sec)
nysql> select * from gifts;
                  | Voucher_type | Value |
 Sno | CustID
                   off rupees
                                      57
    1 |
        GSSup9902 | off rupees
                                      51
    1 | GSult8989 | off rupees
                                      83
```

rows in set (0.00 sec)

mysql> _

SOURCE CODE

Setup

```
import mysql.connector as sql
con = sql.connect(
    host="localhost",
    user=input("enter user (root)"),
    password=input("enter password"),
print("{: ^40}".format("Origami"))
cur = con.cursor()
cur.execute("CREATE DATABASE IF NOT EXISTS kushagra project")
cur.execute("use kushagra_project")
d1 = ["Items", "Price"]
q = "CREATE TABLE {2}(Sno int, {0} Varchar(60), {1} int, Item Code varchar(50));"
cur.execute(q.format(d1[0], d1[1], "Menu_1"))
cur.execute("alter table Menu_1 add primary key(Item_Code);")
con.commit()
dict 1 = {
    "Lacinato Kale": 30,
    "Baby Spinach": 34,
    "Cauliflower": 23,
    "Avocados": 24,
    "Apples": 43,
    "Strawberries": 12,
    "Organic Eggs": 30,
    "Kefir": 34,
    "Almond Milk": 23,
    "Yogurt": 24,
    "Sheep's Milk": 43,
}
def rq(x):
    return '"{}"'.format(x)
```

```
for i in range(len(dict_1)):
    cur.execute(
        "INSERT into Menu_1 Values({0}, {1}, {2}, ".format(
            i, rq(list(dict 1.keys())[i]), dict 1[list(dict 1.keys())[i]]
        + rq("#GS{:03d}".format(i))
        + ");"
con.commit()
d2 = [
    "SNACKS",
    "Price",
dict_2 = {"Popcorn": 30, "Hummus": 34, "Dark Chocolate": 23, "Dried Fruit": 24}
q = "CREATE TABLE {2}(Sno int, {0} Varchar(60), {1} int, Item_Code varchar(50));"
cur.execute(q.format(d2[0], d2[1], "Menu_2"))
cur.execute("alter table Menu_2 add primary key(Item_Code);")
for i in range(len(dict_2)):
    cur.execute(
        "INSERT into Menu_2 Values({0}, {1}, {2}, ".format(
            i, rq(list(dict_2.keys())[i]), dict_2[list(dict_2.keys())[i]]
        + rq("#GS{:03d}".format(i + 11))
        + ");"
con.commit()
quer1 = """CREATE TABLE cust details(
CustID Varchar(30),
Name varchar(20),
Address varchar (40),
EmailID varchar(35),
pincode int,
PhoneNO varchar(40),
pass varchar(50)
);"""
cur.execute(quer1)
cur.execute("alter table cust_details add primary key(CustID);")
cur.execute(
```

```
'insert into cust_details values("ADMIN", "origami", "asdf", "admin@asdf.com"
, 1234, "100", "origami");'
)
cur.execute(
    "create table gifts(Sno int, CustID varchar(60), Voucher_type varchar(60), Value int);"
)
cur.execute("alter table gifts add primary key(CustID);")
con.commit()
```

Code

```
import mysql.connector as sq
from prettytable import PrettyTable as pt
import math
import time
name_of_store = """
\t
\t\t / // // _/ _/ / (_ / , _/ /_/ / _/ , _// // , _// // \
\t\t/_/|_/\__/\__/ \___/|_|\\___/\__/\__/
print(name_of_store)
print(f"{'':_^90s}")
# exit()
e = input("New setup ? y/n: ")
print()
if e != "y":
   con = sq.connect(host="localhost", user="root", database="project")
else:
   con = sq.connect(
       host="localhost",
       # user=input("Enter user (root): "),
       # password=input("Enter password: "),
       user="root",
       password="origami",
       database="kushagra_project",
   )
cur = con.cursor()
def table_print(y):
   cur.execute("Select * from {}".format(y))
   a = cur.fetchall()
   x = pt()
   cur.execute("desc {}".format(y))
   f = cur.fetchall()
   d = []
   for i in f:
```

```
d += [list(i)[0]]
    g = [[] for i in range(len(a[0]))]
    for i in list(a):
        for j, k in enumerate(list(i)):
            g[j].append(k)
    for i, j in enumerate(g):
        x.add_column(d[i], j)
    x.title = y
    return x
# cur.execute("select * from Menu_1;")
# a=cur.fetchall()
# print(a)
ask = input("Are you already registered ? (Y/N): ")
print()
a = 1
b = 1
try:
    from msvcrt import getch
    def getpass(prompt):
        """Replacement for getpass.getpass() which prints asterisks for each char
acter typed"""
        print(prompt, end="", flush=True)
        buf = b""
        while True:
            ch = getch()
            if ch in {b"\n", b"\r", b"\r\n"}:
                print("")
                break
            elif ch == b"\x08": # Backspace
                buf = buf[:-1]
                print(
                    f'\r{(len(prompt)+len(buf)+1)*" "}\r{prompt}{("*" * len(buf))}'
,
                    end="",
                    flush=True,
            elif ch == b"\x03": # Ctrl+C
                raise KeyboardInterrupt
            else:
                buf += ch
```

```
print("*", end="", flush=True)
        return buf.decode(encoding="utf-8")
except ImportError:
    from getpass import getpass
while b == 1:
    if ask == "Y" or ask == "y":
        print("Please give your login details\n")
        # verifying the userid
        while a == 1:
            enterid = str(input("Enter your userid: "))
            print()
            tup = (enterid,)
            cur.execute("Select CustID from cust_details")
            varc = cur.fetchall()
            # varc is a list of all CustID stored in Cust_details in tuple databa
ses
            for c in varc:
                if c == tup:
                    print("UserID found\n")
                    a = 2
                    break
            else:
                print("No userid found\n")
        psswd = getpass("Enter you password: ")
        print()
        check = (enterid, psswd)
        cur.execute("Select CustID, pass from cust_details")
        varp = cur.fetchall()
        a = 1
        h = 1
        while a == 1:
            for j in varp:
                if j == check:
                    print("\nPassword verified\n")
                    a = 2
                    break
            else:
                print("Incorrect Password\n")
                psswd = getpass("Please type the correct password: ")
                check = (enterid, psswd)
                h += 1
                if h > 2:
```

```
print(
                        "You entered the wrong password too many times, create a
new id\n"
                    ask = "n"
        b = 2
    elif ask == "N" or ask == "n":
        print("Enter your details\n")
        name = input("Enter your name: ")
        print()
        phoneno = str(input("Enter your phone number: "))
        print()
        while True:
            if len(phoneno) == 10:
                print("phone number verified\n")
                break
            else:
                print(
                    "Invalid Phone No. :)(Your Phone number should contain 10 dig
its)\n"
                )
                phoneno = str(input("Please enter a valid Phone No: "))
                print()
        email = input("Enter your email address: ")
        print()
        add = input("Enter your address: ")
        print()
        while True:
            pincode = input("Enter the pincode of your area: ")
            try:
                int(pincode)
                break
                print("Enter correct pincode")
        print()
        time.sleep(2)
        user_id = "GS" + name[0:3] + phoneno[0:4]
        print("Your Grocery Express Userid is", user_id + "\n")
        psswd = input("Enter your password: ")
        print()
        recheck = getpass("Please re-enter your password: ")
        while True:
```

```
if psswd == recheck:
                time.sleep(2)
                print("Password verified\n")
                break
            else:
                print("please renter your password\n")
                recheck = input("Renter your password: ")
                print()
        # Entering the data given by user into the Database
        query1 = "Insert into cust_details values(%s, %s, %s, %s, %s, %s, %s)"
        cur.execute(query1, (user_id, name, add, email, pincode, phoneno, psswd))
        con.commit() # veeeery important
        b = 2
   else:
        ask = input("Are you already registered ? (Y or N): ")
        print()
try:
    cur.execute(
        'select name, CustID from cust details where CustID="{}"'.format(enterid)
    z = cur.fetchall()
   name = z[0][0]
   user_id = z[0][1]
except:
    name = user_id
def get voucher(id of user):
    cur.execute(f'select Value from gifts where CustID="{user id}";')
   data = cur.fetchall()
    if len(data) != 0:
        return data[0][0]
   else:
        return 0
print("Hi! {}".format(name), "\n")
time.sleep(1)
input("Please press enter")
print()
print(table print("Menu 1"))
print()
print(table_print("Menu_2"))
time.sleep(1)
cur.execute("select Items, Price from Menu_1;")
```

```
dict_1 = dict(cur.fetchall())
cur.execute("select SNACKS, Price from Menu 2;")
dict_2 = dict(cur.fetchall())
list_1 = []
ans = y
def checker(x):
    z = list(x.capitalize())
    for i in range(len(z)):
        try:
            if i == x.index(" "):
                z[i + 1] = z[i + 1].upper()
        except:
            continue
    for j in range(len(z)):
        w += z[j]
    x = w
    if x in dict_1:
        list_1.append(x)
    elif x in dict 2:
        list_1.append(x)
    else:
        print(
            "Sorry sir, We do not have ",
            " in stock yet, Leave your requests in the feedback section.\n",
        )
while True:
    while ans == "v":
        o = input("\nWhat do you want to purchase, Sir? : ")
        print()
        checker(o)
        ans = input("Want something else, Sir(Y/N): ")
        print()
    else:
        yes = input("Do you want to continue shopping ? (y/n): ")
        if yes != "y":
            break
        else:
            ans = yes
```

```
pass
print()
# print(list_1) #good for debugging
def quant(y):
    for i in range(len(y)):
        a = int(input("Quantity of item " + y[i] + ": "))
        print()
        list_2[i] = a
def feed():
    input("Please tell us about your visit, suggestions, complaints or requests:
\n")
   print("Thank you for you cooperation, we will get back to you as soon as poss
ible ")
def truncate(number, digits) -> float:
    stepper = 10.0 ** digits
    return math.trunc(stepper * number) / stepper
if len(list_1) != 0:
    list_2 = list(list_1)
   quant(list_1)
   list_3 = [[[] for b in range(6)] for a in range(len(list_1) + 1)]
    list_3[0][0] = "S. NO."
    list_3[0][1] = "NAME OF ITEMS (Price Per Item)"
   list_3[0][2] = "QUANTITY"
    list_3[0][3] = "TAX"
    list 3[0][4] = "PRICE"
    list_3[0][5] = "EFFECTIVE PRICE"
    sum = 0
    z = 18
    for n in range(1, len(list_1) + 1):
        list_3[n][0] = str(n)
        list_3[n][1] = str(list_1[n - 1])
        list_3[n][2] = list_2[n - 1]
```

```
list_3[n][3] = str(z) + "%"
        try:
            str(list_1[n - 1]) in dict_1
            list_3[n][4] = list_2[n - 1] * dict_1[str(list_1[n - 1])]
            sum += list_2[n - 1] * dict_1[str(list_1[n - 1])] * (1 + (18 / 100))
            list_3[n][5] = (
                "Rs."
                + str(list_2[n - 1] * dict_1[str(list_1[n - 1])] * (1 + (18 / 100
)))[
                    :13
                ]
            )
        except:
            list_3[n][4] = list_2[n - 1] * dict_2[str(list_1[n - 1])]
            sum += list_2[n - 1] * dict_2[str(list_1[n - 1])] * (1 + (18 / 100))
            list_3[n][5] = (
                "Rs."
                + str(list_2[n - 1] * dict_2[str(list_1[n - 1])] * (1 + (18 / 100
)))[
                    :13
                ]
            )
   y = pt()
   b = []
   for i in range(len(list_3[0])):
        b.append(list_3[0][i])
   y.field_names = b
   for i in range(1, len(list_3)):
        try:
            list_3[i][1] += " ({})".format(str(dict_1[list_1[i - 1]]))
        except:
            list_3[i][1] += " ({})".format(str(dict_2[list_1[i - 1]]))
   for k in range(1, len(list_3)):
        y.add_row(list_3[k])
   print(y)
   print()
   voucher = get_voucher(user_id)
    if voucher != 0:
        print(f"Applying your voucher of Rs.{voucher} \n")
```

```
time.sleep(2)
        final amount = round(sum) - voucher
   else:
        print("FREE TIP! Shop for Rs. 500 or more to get special discounts\n")
       time.sleep(1)
        final amount = round(sum)
   print("Your total bill is Rs.", final_amount)
   time.sleep(1)
   print()
   print("Collect your recipt at the counter.\n")
   print("Thank you for the visit", name + "\n")
   print("Please Enter feedback and you can cllect your bill \n ")
   voucher maybe = (
        f"Congratulations!! You got discount of Rs.{voucher} on you bill of Rs.{r
ound(sum)}\n"
        if voucher != 0
        else ""
   with open("{}_bill.txt".format(name), "a") as f:
        f.writelines(
            "{:_^88s}\n\n".format("Thank you for shopping with us !"),
                str(y) + "\n",
                voucher_maybe,
                "The total payable amount is: "
                + f"Rs.{str(final_amount)}/- "
                + "\n\n\n",
            1
        )
   time.sleep(2)
   feed()
    def get random():
        from random import randint
        return randint(10, 90)
    if final_amount >= 500:
        print("\nYou are elegible for our gift voucher. Shop again to claim it.")
        cur.execute("select CustID, Value from gifts;")
        for i in cur.fetchall():
            if user_id in i:
                cur.execute(
```

```
f'update gifts set Value={get_random()} where CustID="{user_i
d}";'
                )
                con.commit()
                break
        else:
            cur.execute(
                f'insert into gifts values(1,"{user_id}", "off rupees", {get_rand
om()});'
            )
            con.commit()
    con.close()
print("\nLookin' forward to you next visit !")
def stopper():
    if not input("Press enter to exit.."):
        print()
        exit()
    else:
        stopper()
stopper()
```

ENHANCEMENTS

- The characteristic of a good program is the ability for it to be user friendly. I believe a good documentation for this could be made for it to become more accessible to any person
- A mode for staff only could also be made. Staff can then monitor the stats on how well a grocery is selling and monitor the expiry date
- The ability for users to withdraw their name from our database can also be implemented. This is to ensure the privacy of our customers

HARDWARE USED/ SOFTWARE USED

- MX linux
- Dell inspiron 3000
- 500gb HDD
- 4gb RAM
- Python 3.7.6
- IDLE
- MySql / MariaDB

BIBLIOGRAPHY

- http://docs.python.org
- http://stackoverflow.com/