COMPUTER SCIENCE (083)
PROJECT FILE

Language Used: Python, SQL

Project Title: RWA Management

Submitted by:

ANUSHKA SRIVASTAVA

Class: XII A

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Certificate

This is to certify that this project titled "RWA Management" is prepared by Anushka Srivastava of class XII of Amity International School, Sector 46, Gurgaon, Haryana, under the guidance of Mrs. Gurminder Kaur, PGT Computer Science (CS), and has been submitted for evaluation as partial fulfillment of curriculum for the session 2022-23. This is also certified that the project is originally written and does not indulge in any form of plagiarism. It is acknowledged that a lot of information and understanding has been collected/ sourced from sources that are already published and accessible to the general public, which is separately acknowledged at the end of the report.

Signature of Student
Name: Anushka Srivastava
Board Roll Number: 17642810

Signature of Teacher
Mrs. Gurminder Kaur

Signature of Principal
Mrs. Arti Chopra
Principal, AISG-46

Acknowledgement

At the onset, I must express my heartfelt thanks and gratitude to the Principal Ma'am and the School Management for inspiring us to take challenges and work on practical projects.

I sincerely acknowledge the support and guidance of my Computer Science teacher, Mrs. Gurminder Kaur, in completing this Project Report successfully and on time.

I would also like to acknowledge the contributions of all the team members.

Title of the Project

RWA Management

Based on Python

Problem Definition

The Residents' Welfare Association (RWA), a group of individuals chosen by the residents from amongst themselves, exists in almost every housing complex. Such housing complexes are typically preferred for their safety, open areas, and amenities. However, for an efficiently working RWA group, significant maintenance is required for various issues such as the rents, location, security, events, etc. If we try to do all this manually, abundant labor is needed simultaneously. For individuals having tight schedules, it is hard to find common free time for social work. Storage becomes a more significant issue, as saving information in a temporary placement is futile. If all of this could be done digitally, the work would be accomplished more proficiently, and it would help society by saving effort and time.

Team Members

(17642810) **Anushka Srivastava**

(17642809) **Ananyaa M**

(17642820) **Divyanka Dixit**

Objective

The project is designed bearing in mind the importance of a well-maintained community and improvement in the working of a society and its RWA group. It provides a digital way to take care of a residential society effortlessly. We have tried to make a user-friendly program where one can enter a new record, display specific records, and perform other functions with the help of Data Files or SQL connecting with Python. A section shares information related to the RWA group, such as the members and their roles; it also takes inputs from the user for any inquiry. A billing department is present to manage the several fees in the society; a grocery department supervises the shops for the residents' convenience. Another sub-topic superintends the events that take place to have a more engaging experience among the people. It also touches on the requirements for an orphanage or a nursing home that is made for people in need. This project will help an RWA group overcome the troubles they face due to storage and allow the people to work for the betterment of their society with minimal labor.

System Requirements

Hardware Requirements:
Working Personal Computer (PC)

Software Requirements:
OS: Windows version 8 and above
Compiler: Python Compiler with the latest updates
SQL connectivity
System CSV/TXT/BINARY files

Source Code

RWA_Management.py

```
while True:
    print("\n\n\n")
    print("=="*25)
    print("\t\t\tWelcome to RWA System")
    print("=="*25)
    print("A. The RWA Group")
    print("B. Loan and Bill Department")
    print("C. Society Grocery")
    print("D. Privileges to the Orphanage/ Old Age Home")
    print("E. Events in the Society")
    print("F. EXIT")
    ask=input("Enter your choice(A-F): ")
    if ask=="A":
        while 1:
            print("--"*20)
            print("\t\t\tThe RWA Group")
            print("--"*20)
            print("1. Members")
            print("2. Notice Board")
            print("3. File a complaint")
            print("4. Leave The RWA Group")
            choice=input("Enter your pick: ")
            if choice=="1":
                import govbody
            elif choice=="2":
                import noticeboard
            elif choice=="3":
                import complain
            elif choice=="4":
                break
    elif ask=="B":
        import loan_bill
    elif ask=="C":
        import grocery
    elif ask=="D":
        while 1:
            print("--"*30)
            print("\t\tPrivileges to the Orphanage/ Old Age Home")
            print("--"*30)
            print("1. Orphanage")
            print("2. Old Age Home")
            print("3. Leave Privileges to the Orphanage/ Old Age Home")
            choice=input("Enter your pick: ")
            if choice=="1":
                import orphanage
            elif choice=="2":
                import old_age_home
            elif choice=="3":
                break
```

```
        elif ask=="E":
            while 1:
                print("--"*20)
                print("\t\t\t\tEVENTS")
                print("--"*20)
                print("1. Food")
                print("2. Articles")
                print("3. Activities")
                print("4. Invitations")
                print("5. Leave EVENTS")
                choice=input("Enter your pick: ")
                if choice=="1":
                    import food
                elif choice=="2":
                    import articles
                elif choice=="3":
                    import activities
                elif choice=="4":
                    import invitation
                elif choice=="5":
                    break
        elif ask=="F":
            print("THANK YOU!!")
            break
```

govbody.py

```
import mysql.connector

def Creation():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>')
    mycursor=mydb.cursor()
    mycursor.execute("create database RWA;")

def Governing_Body():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    #q13='create table GOVBODY (SNo integer primary key, Name varchar(70) not null, Post varchar(6\0) not null
    #mycursor.execute(q13)                                                                    Apartment_Number varchar(20) not null );'
    q14='insert into GOVBODY values(01,"Suman Pal", "President","F 0907");'
    q15='insert into GOVBODY values(02,"Amit Kumar", "Vice President","B 1302");'
    q16='insert into GOVBODY values(03,"Tarun Singh", "General Secretary","L 0404");'
    q17='insert into GOVBODY values(04,"Alok Rastogi", "Treasurer","P 0603");'
    q18='insert into GOVBODY values(05,"Shashi Narayan", "Jt.Treasurer","M 1503");'
    q19='insert into GOVBODY values(06,"Neetu Saxena", "Jt.Secretary","N 1301");'
    q20='insert into GOVBODY values(07,"Shailendra Chaudhary", "Member","G 0401");'
    q21='insert into GOVBODY values(08,"Amit singh", "Member","J 1202");'
    q22='insert into GOVBODY values(09,"Krishnan Anand", "Member","B 0404");'
    q23='insert into GOVBODY values(010,"Alok Gupta", "Member","C 0402");'
    mycursor.execute(q14)
    mycursor.execute(q15)
    mycursor.execute(q16)
    mycursor.execute(q17)
    mycursor.execute(q18)
    mycursor.execute(q19)
    mycursor.execute(q20)
    mycursor.execute(q21)
    mycursor.execute(q22)
    mycursor.execute(q23)
    mydb.commit()
    mydb.close()
```

```
def Govbody():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    g='select * from  GOVBODY;'
    mycursor.execute(g)
    x=mycursor.fetchall()
    for i in x:
       print(i)
Governing_Body()
Govbody()
```

noticeboard.py

```
def Notice_Board():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    q24='create table NOTICEBOARD (SNo integer primary key, UPDATES varchar(200) not null, INFORMATION varchar(200) not null);'
    mycursor.execute(q24)
    q25='insert into NOTICEBOARD values(1,"Financial Updates","Detailed audit report will be published & shared with residents s
    q26='insert into NOTICEBOARD values(2, "Building Repair" , "Building Repair project is completely successfully and warranty
    q27='insert into NOTICEBOARD values(3, "Action on SGRWA defaulters","Civil Suit has been filed against some residents who ha
    q28='insert into NOTICEBOARD values(4,"Legal updates","SGRWA has filed complaint with DR for making old office bearers to ge
    q29='insert into NOTICEBOARD values(5,"DG (Power Back up) Status","Fully functional cooling tower has been erected in DG roo
    q30='insert into NOTICEBOARD values(6,"Electrical Equipment upkeep & maintenance","Dressing of LT panels situated in C & N k
    q31='insert into NOTICEBOARD values(7, "Club House","Both wash rooms inside club are being renovated.Open Terrace party spac
    q32='insert into NOTICEBOARD values(8,"Society entrance renovation","One of the best Main gate in indirapuram has been renov
    q33='insert into NOTICEBOARD values(9,"Miscellaneous Updates", "Separate toilets for maids and drivers has been made so that
    q34='insert into NOTICEBOARD values(10,"Electricity metering system", "Few residents need to change their meter as they are
    q35='insert into NOTICEBOARD values(11,"Fire Fighting Repair","Fire Lines, Sprinklers & Hydrants in all towers have been ena
    mycursor.execute(q25)
    mycursor.execute(q26)
    mycursor.execute(q27)
    mycursor.execute(q28)
    mycursor.execute(q29)
    mycursor.execute(q30)
    mycursor.execute(q31)
    mycursor.execute(q32)
    mycursor.execute(q33)
    mycursor.execute(q34)
    mycursor.execute(q35)
    mydb.commit()
    mydb.close()
```

```
def Notices():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    F='select * from  NOTICEBOARD;'
    mycursor.execute(F)
    x=mycursor.fetchall()
    for i in x:
       print(i)

Notice_Board()
Notices()
```

complain.py

```
def COMPLAIN():
    Complain=input('Kindly write your complain here:')
    print('Your complain has been registered!')
    print('We will try to resolve your problem as soon as possible')

COMPLAIN()
```

loan_bill.py

```
import csv

print('='*45)
print('''
        WELCOME TO LOAN AND BILL DEPARTMENT
      ''')
print('='*45)
print()

lis = [["NAME", "BILL PAID/UNPAID", "LOAN", "SOCIETY FEE PAID/UNPAID"],
       ["Mohan", "Bill Unpaid", 0, "Fee Paid"],
       ["Ananyaa", "Bill Paid", 0, "Fee Paid"], ["Arun", "Bill Unpaid", 10000, "Fee Paid"],
       ["Anushka", "Bill Paid", 5000, "Fee Paid"], ["Divyanka", "Bill Paid", 0, "Fee Unpaid"]]

with open("members.csv", "w", newline='') as f:
    a = csv.writer(f)
    a.writerows(lis)

with open("members.csv", "r") as f:
    a = csv.reader(f)
    for i in a:
        print(i)

def bill():
    print('''
          1. ELECTRICITY PRICE - Rs. 2000 per month
          2. WATER PRICE - Rs. 3000 per month

          TOTAL AMOUNT = Rs. 5000
          ''')
    nam = input("Enter your name: ")

    with open("members.csv", "r") as f:
        a = csv.reader(f)
        for i in a:
            if i[0] == nam:

                if i[1] == "Bill Unpaid":
                    print("Please deposit Rs. 5000")
```

```
                    x = int(input("Enter here: "))
                    if x == 5000:
                        for j in range(len(lis)):
                            if lis[j][0] == nam:
                                lis[j][1] = "Bill Paid"

                                with open("members.csv", "w", newline='') as f:
                                    a = csv.writer(f)
                                    a.writerows(lis)
                    elif x != 5000:
                        print("Please enter correct amount and Try again")

                elif i[1] == "Bill Paid":
                    print("You have already paid the bill.")

        with open("members.csv", "r") as f:
            a = csv.reader(f)
            for i in a:
                print(i)

def loan():
    nam = input("Enter your name: ")

    with open("members.csv", "r") as f:
        a = csv.reader(f)
        for i in a:
            if i[0] == nam:
                if i[2] != 0:
                    print("interest amount Rs. 2000")
                    print()

                    p = int(i[2]) + 2000
                    print("AMOUNT TO PAY:",p)
                    x = int(input("pls pay here: "))

                    if x == p:
                        print("Loan Paid!")
                        for j in range(len(lis)):
                            if lis[j][0] == nam:
                                lis[j][2] = 0

                                with open("members.csv", "w", newline='') as f:
                                    a = csv.writer(f)
                                    a.writerows(lis)
                    elif x != p:
                        print("Please enter correct amount and try again.")

                elif i[2] == 0:
                    print("No Loan taken")

      with open("members.csv", "r") as f:
          a = csv.reader(f)
          for i in a:
              print(i)
```

```
def fee():
    print('''
          SOCIETY MAINTENANCE FEE - Rs. 500 per month
          ''')
    nam = input("Enter your name: ")

    with open("members.csv", "r") as f:
        a = csv.reader(f)
        for i in a:
            if i[0] == nam:
                if i[3] != "Fee Paid":
                    x = int(input("Enter amount: "))

                    if x == 500:
                        print("Fee paid!")
                        for j in range(len(lis)):
                            if lis[j][0] == nam:
                                lis[j][3] = "Fee paid"

                                with open("members.csv", "w", newline='') as f:
                                    a = csv.writer(f)
                                    a.writerows(lis)
                    elif x != 500:
                        print("Please enter correct amount and try again.")
                if i[3] == "Fee Paid":
                    print("You have already paid the fee.")

        with open("members.csv", "r") as f:
            a = csv.reader(f)
            for i in a:
                print(i)

while True:
    print('''
          MAIN MENU

          1. Electricity/Water Bill
          2. Loan Payment
          3. Society Maintenance Fee
          4. Exit
          ''')

    n = int(input("ENTER YOUR CHOICE (1/2/3/4): "))

    if n == 1:
        bill()
    elif n == 2:
        loan()
    elif n == 3:
        fee()
    else:
        break
```

grocery.py

```
import csv

l1 = [["Name", "Qty", "Price per unit"], ["Apple", 1000, 10], ["Banana", 400, 10], ["Guava", 50, 20],
      ["Orange", 1000, 15], ["Grapes", 500, 30]]
l2 = [["Name", "Qty", "Price"], ["Potato", 1000, 5], ["Onion", 800, 10], ["Cabbage", 50, 20],
      ["Tomato", 1000, 10], ["Carrot", 500, 15], ["Ladyfinger", 1000, 4]]
l3 = [["Name", "Qty(in litres)", "Price"], ["Milk", 1000, 100], ["Yogurt", 30, 100], ["Paneer", 50, 200]]

with open("fruits.csv","w",newline='') as f:
    d = csv.writer(f)
    d.writerows(l1)

with open("veggies.csv","w",newline='') as f:
    d = csv.writer(f)
    d.writerows(l2)

with open("dairy.csv","w",newline='') as f:
    d = csv.writer(f)
    d.writerows(l3)

print('='*45)
print('''
       WELCOME TO THE GROCERY STORE
      ''')
print('='*45)
print()

with open("basket.csv","w",newline='') as f1:
    e = csv.writer(f1)
    e.writerow(["ITEM", "QTY", "PRICE"])

def shopping():
    with open("basket.csv","a",newline='') as f1:
        e = csv.writer(f1)
        while True:
            print('''
                  a. fruits
                  b. vegetables
                  c. dairy products
                  d. done and exit
                  ''')

            n2 = input("enter your choice of item (a/b/c/d):")

            if n2 == "a":
                with open("fruits.csv","r") as f:
                    a = csv.reader(f)
                    for i in a:
                        print(i)
                    print()
                    it = input("item name: ")
                    qt = int(input("how much do you need?: "))
                    amnt = 0
                    for i in l1:
                        if i[0] == it:
                            amnt += qt * i[2]
                    x = [it,qt,amnt]
                    e.writerow(x)

            elif n2 == "b":
                with open("veggies.csv","r") as f:
                    b = csv.reader(f)
                    for j in b:
                        print(j)
                    print()
```

```
                    it1 = input("item name: ")
                    qt1 = int(input("how much do you need?: "))
                    amnt1 = 0
                    for j in l2:
                        if j[0] == it1:
                            amnt1 += qt1 * j[2]
                    x1 = [it1,qt1,amnt1]
                    e.writerow(x1)

            elif n2 == "c":
                with open("dairy.csv","r") as f:
                    c = csv.reader(f)
                    for x in c:
                        print(x)
                    print()
                    it2 = input("item name: ")
                    qt2 = int(input("how much do you need?: "))
                    amnt2 = 0
                    for x in l3:
                        if x[0] == it2:
                            amnt2 += qt2 * x[2]
                    y = [it2,qt2,amnt2]
                    e.writerow(y)

            else:
                break
    with open("basket.csv","r") as f1:
        q = csv.reader(f1)
        print("YOUR BASKET SUMMARY:")
        for i in q:
            print(i)
        print()

def counter():
    payment = 0
    with open("basket.csv","r") as f1:
        q = csv.reader(f1)
        for i in q:
            if i[2] == 'PRICE':
                continue
            else:
                payment += int(i[2])
    print()
    print("AMOUNT TO BE PAID:", payment)
    print()

def damage():
    payback = 0
    dam = input("enter the type of item u want to return (fruits/vegetables/dairy): ")

    if dam == "fruits":
        dam_item = input("enter fruit name: ")
        with open("fruits.csv","r") as f:
            a = csv.reader(f)
            for i in a:
                if i[0] == dam_item:
                    w = int(input("enter quantity:"))
                    payback = w * int(i[2])
```

```
        elif dam == "vegetables":
            dam_item = input("enter vegetable name: ")
            with open("veggies.csv","r") as f:
                b = csv.reader(f)
                for i in b:
                    if i[0] == dam_item:
                        w = int(input("enter quantity:"))
                        payback = w * int(i[2])

        elif dam == "dairy":
            dam_item = input("enter vegetable name: ")
            with open("veggies.csv","r") as f:
                c = csv.reader(f)
                for i in c:
                    if i[0] == dam_item:
                        w = int(input("enter quantity:"))
                        payback = w * int(i[2])

        print("HERE IS THE AMOUNT WE PAY YOU BACK:", payback)
        print()

    while True:
        print('''MAIN MENU
              1. Shop for Items
              2. Billing Counter
              3. Return Damaged Goods
              4. Exit
              ''')

        n1 = int(input("What do you want to do? (1/2/3/4): "))
        print()

        if n1 == 1:
            shopping()
        elif n1 == 2:
            counter()
        elif n1 == 3:
            damage()
        else:
            break
```

orphanage.py

```
def Orphanage():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    mycursor.execute('use RWA;')
    q='create table ORPHANAGE(ID integer primary key, Name varchar(20) not null, DATE_OF_JOIN DATE not null,\
    AGE integer not null, GENDER varchar(2) not null);'
    mycursor.execute(q)
    q1='insert into ORPHANAGE values(001,"Saima","2006-12-13",15,"F");'
    q2='insert into ORPHANAGE values(002,"Sarul","2011-09-23",11,"F");'
    q3='insert into ORPHANAGE values(003,"Gaurang","2005-02-1",16,"M");'
    q4='insert into ORPHANAGE values(004,"Lakshay","2006-05-12",15,"M");'
    q5='insert into ORPHANAGE values(005,"Divyansh","2007-01-13",15,"M");'
    q6='insert into ORPHANAGE values(006,"Danica","2013-10-19",09,"F");'
    q7='insert into ORPHANAGE values(007,"Mahi","2015-05-27",07,"F");'
    q8='insert into ORPHANAGE values(008,"Tvarita","2017-12-25",05,"F");'
    q9='insert into ORPHANAGE values(009,"Krishang","2014-12-01",08,"M");'
    q10='insert into ORPHANAGE values(010,"Kartik","2010-11-15",12,"M");'
```

```
    mycursor.execute(q1)
    mycursor.execute(q2)
    mycursor.execute(q3)
    mycursor.execute(q4)
    mycursor.execute(q5)
    mycursor.execute(q6)
    mycursor.execute(q7)
    mycursor.execute(q8)
    mycursor.execute(q9)
    mycursor.execute(q10)
    mydb.commit()
    mydb.close()
def Display_Records_Or():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    q11='select * from ORPHANAGE;'
    mycursor.execute(q11)
    x=mycursor.fetchall()
    for i in x:
       print(i)

def Add_Record_Or():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    while True:
        Id=int(input('Enter ID:'))
        Name=input('Enter name:')
        DOJ=input('Enter date of joining(YYYY-MM-DD):')
        Age=int(input('Enter age:'))
        Gender=input('Enter gender(M/F):')
        val=(Id,Name,DOJ,Age,Gender)
        q12='insert into ORPHANAGE (ID,Name,DATE_OF_JOIN,Age,Gender) values(%s, %s, %s, %s, %s);'
        mycursor.execute(q12,val)
        mydb.commit()
        print(mycursor.rowcount,"Record Inserted")
        choice=input('WANT TO ADD MORE RECORDS?(Y/N):')
        if choice == 'N':
            break
 def Delete_record_Or():
     mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
     mycursor=mydb.cursor()
     name=input('enter the name whose info needs to be deleted:')
     tup1=(name,)
     sql='delete from Orphanage where name = %s'
     mycursor.execute(sql,tup1)
     print('record deleted')
     mydb.commit()

  while True:
      print('''MAIN MENU
            1. To view Orphanage
            2. To add a record in Orphanage
            3. To delete a record in Orphanage
            4. Exit
            ''')
```

```
n1 = int(input("What do you want to do? (1/2/3/4): "))
print()

if n1 == 1:
    Display_Records_Or()
elif n1 == 2:
    Add_Record_Or()
elif n1 == 3:
    Delete_record_Or()
else:
    break
```

old_age_home.py

```
def OLD_AGE_HOME():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    mycursor.execute('use RWA;')
    #r='create table OLD_AGE_HOME(SNO integer not null, Name varchar(20) not null,AGE integer not null,D
    #mycursor.execute(r)                          ,DATE_OF_JOIN DATE not null, GENDER varchar(2) not null);'
    r1='insert into OLD_AGE_HOME values(001,"Babita Sharma", 65,"2000-12-13","F");'
    r2='insert into OLD_AGE_HOME values(002,"Sushma Sangwan",67,"2001-09-23","F");'
    r3='insert into OLD_AGE_HOME values(003,"Manmohan Singh",68,"2000-12-1","M");'
    r4='insert into OLD_AGE_HOME values(004,"Lalit Mohan",75,"2002-05-22","M");'
    r5='insert into OLD_AGE_HOME values(005,"Kamlesh Yadav",62,"2007-02-13","M");'
    r6='insert into OLD_AGE_HOME values(006,"Sarla Devi",72,"2002-11-19","F");'
    r7='insert into OLD_AGE_HOME values(007,"Karuna Malik",81,"2000-05-27","F");'
    r8='insert into OLD_AGE_HOME values(008,"Shailesh Rathore",82,"2003-12-05","M");'
    r9='insert into OLD_AGE_HOME values(009,"Jailendra Sharma",73,"2007-10-11","M");'
    r10='insert into OLD_AGE_HOME values(010,"Pushpa Gaur",59,"2001-01-05","F");'
    mycursor.execute(r1)
    mycursor.execute(r2)
    mycursor.execute(r3)
    mycursor.execute(r4)
    mycursor.execute(r5)
    mycursor.execute(r6)
    mycursor.execute(r7)
    mycursor.execute(r8)
    mycursor.execute(r9)
    mycursor.execute(r10)
    mydb.commit()
    mydb.close()
```

```
def Display_Records_Oa():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    r11='select * from OLD_AGE_HOME;'
    mycursor.execute(r11)
    x=mycursor.fetchall()
    for i in x:
       print(i)

def Add_Record_Oa():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    while True:
        SNO=int(input('Enter ID:'))
        Name=input('Enter name:')
        DOJ=input('Enter date of joining(YYYY-MM-DD):')
        Age=int(input('Enter age:'))
        Gender=input('Enter gender(M/F):')
        val=(Id,Name,DOJ,Age,Gender)
        q12='insert into OLD_AGE_HOME (SNO,Name,DATE_OF_JOIN,Age,Gender) values(%s, %s, %s, %s, %s);'
        mycursor.execute(q12,val)
        mydb.commit()
        print(mycursor.rowcount,"Record Inserted")
        choice=input('WANT TO ADD MORE RECORDS?(Y/N):')
        if choice == 'N':
            break
```

```
def Delete_record_Oa():
    mydb=mysql.connector.connect(host='localhost',user='root',passwd='54Mbqg<>',database='RWA')
    mycursor=mydb.cursor()
    name=input('enter the name whose info needs to be deleted:')
    tup1=(name,)
    sql='delete from OLD_AGE_HOME where name = %s'
    mycursor.execute(sql,tup1)
    print('record deleted')

    mydb.commit()

while True:
print('''MAIN MENU
          1. To view Old age home
          2. To add a record in Old age home
          3. To delete a record in Old age home
          4. Exit
          ''')
n1 = int(input("What do you want to do? (1/2/3/4): "))
print()

if n1 == 1:
    Display_Records_Oa()
elif n1 == 2:
    Add_Record_Oa()
elif n1 == 3:
    Delete_record_Oa()
else:
    break
```

food.py

```
import pickle

def food_create():
    fmenu1=open("food.dat",'wb')
    while True:
        topic=input("Choose course: Snacks/Main_course/Dessert/Beverage/Extras: ")
        list_topic=[]
        while 1:
            name=input("Enter name of food item: ")
            price=int(input("Enter price of one piece: "))
            qty=int(input("Enter quantity of the item needed: "))
            list_item=[name,price,qty]
            list_topic.append(list_item)
            ask2=input("add another?(y/n)")
            if ask2=='n':
                dict_topic={topic:list_topic}
                pickle.dump(dict_topic,fmenu1)
                break
        ask3=input("add another course?(y/n)")
        if ask3=='n':
            break
    fmenu1.close()

def food_showcase():
    fmenu2=open("food.dat",'rb')
    tlist=[]
    try:
        while True:
            x=pickle.load(fmenu2)
            tlist.append(x)
    except:
        print("(search complete)")
    print()
    print("<item,price,quantity>")
    for i in tlist:
        print()
        for s,t in i.items():
            print(s)
            for j in t:
                print(j)
    fmenu2.close()
```

```
def food_search():
    fmenu3=open("food.dat",'rb')
    tlist=[]
    item=input("Enter the name of the item to be searched:")
    try:
        while True:
            y=pickle.load(fmenu3)
            tlist.append(y)
    except:
        print("(search complete)")
    its='no'
    for k in tlist:
        for m,n in k.items():
            for l in n:
                if l[0]==item:
                    print("In",m,":",l[0],", price-",l[1],", quantity-",l[2])
                    its='yes'
    if its=="no":
        print("The item is not present in the menu.")
    fmenu3.close()


while True:
    print("\n\n")
    print("="*46)
    print("\t\t\t\t\tFOOD")
    print("-"*46)
    print("(a) Showcase current Menu")
    print("(b) Search for an item from the current Menu")
    print("(c) Create a new Menu")
    print("(d) Leave Topic: Food")
    ask1=input("Enter your choice:")
    if ask1=="a":
        food_showcase()
    elif ask1=="b":
        food_search()
    elif ask1=="c":
        food_create()
    elif ask1=="d":
        break
```

articles.py

```
import csv

def article_showcase():
    vmenu1=open("articles.csv",'r')
    data=csv.reader(vmenu1)
    records=[]
    lkind=[]
    for i in data:
        records.append(i)
    records.pop(0)
    for p in records:
        if len(p)==0:
            records.remove(p)
    for q in records:
        if q[3] not in lkind:
            lkind.append(q[3])

    dart={}
    for m in lkind:
        lart=[]
        for n in records:
            if m==n[3]:
                lart.append(n[:3])
        dart.update({m:lart})

    print('''Decoration (D)
Furniture (F)
Gift (G)
Specific (S)''')
    print()
    for s,t in dart.items():
        print(s,":")
        for item in t:
            print(item)
        print()
    vmenu1.close()
```

```
def article_add():
    vmenu3=open("articles.csv",'a')
    while 1:
        num=int(input("Article number:"))
        name=input("Article name:")
        price=int(input("Price:"))
        print()
        print('''Decoration (D),
Furniture (F),
Gift (G)
Specific (S)''')
        kind=input("Enter type of article:")
        artlist=[num,name,price,kind]
        x=csv.writer(vmenu3)
        x.writerow(artlist)
        ask2=input("add another?(y/n)")
        if ask2=='n':
            break
    vmenu3.close()
```

```
def article_amount():
    vmenu2=open("articles.csv",'r')
    data=csv.reader(vmenu2)
    records=[]
    for i in data:
        records.append(i)
    records.pop(0)
    for j in records:
        if len(j)==0:
            records.remove(j)

    list_bill=[]
    total=0
    while 1:
        inum=int(input("Enter article number: "))
        iqty=int(input("Enter the quantity required: "))
        for p in records:
            if int(p[0])==inum:
                cost=iqty*int(p[2])
                total=total+cost
                bill=p[1]+'--'+str(iqty)+'--'+str(cost)
                list_bill.append(bill)
        ask2=input("more articles?(y/n)")
        if ask2=='n':
            break
    print()
    print("Your Bill:")
    print("<Article-Quantity-Cost>")
    for q in list_bill:
        print(q)
    print()
    print("Total Cost is:",total)
    vmenu2.close()


  def article_create():
      vmenu4=open("articles.csv",'w')
      head=['Number','Name','Price','Type']
      y=csv.writer(vmenu4)
      y.writerow(head)
      while 1:
          num=int(input("Article number:"))
          name=input("Article name:")
          price=int(input("Price:"))
          print()
          print('''Decoration (D),
  Furniture (F),
  Gift (G)
  Specific (S)''')
          kind=input("Enter type of article:")
          artlist=[num,name,price,kind]
          x=csv.writer(vmenu4)
          x.writerow(artlist)
          ask2=input("add another?(y/n)")
          if ask2=='n':
              break
      vmenu4.close()
```

```
    while True:
        print("\n\n")
        print("="*50)
        print("\t\t\t\t\tArticles")
        print("-"*50)
        print("(a) Showcase list of articles type-wise")
        print("(b) Find the total amount for required articles")
        print("(c) Add another article")
        print("(d) Create a completely new list of articles")
        print("(e) Leave Topic: Articles")
        ask1=input("Enter your choice:")
        if ask1=="a":
            article_showcase()
        elif ask1=="b":
            article_amount()
        elif ask1=="c":
            article_add()
        elif ask1=="d":
            article_create()
        elif ask1=="e":
            break
```

activities.py

```
import pickle

def activ_create():
    amenu1=open("activities.dat",'wb')
    actdict1={}
    while 1:
        kind=input("Enter type of activity(Games/Dance/Sing/Play): ")
        num=int(input("Number of activities to add in this category: "))
        actlist1=[]
        for i in range(num):
            nu=input("Enter id number:")
            n=input("Enter name: ")
            t=int(input("Enter time duration(min): "))
            actlist1.append([nu,n,t])
        actdict1.update({kind:actlist1})
        pickle.dump(actdict1,amenu1)
        ask2=input("Add for another type?(y/n) ")
        if ask2=='n':
            break
    amenu1.close()

def activ_showcase():
    amenu2=open("activities.dat",'rb')
    try:
        while True:
            x=pickle.load(amenu2)
    except:
        print("(search complete)")
    print("Activities in respective categories with time duration(min):\n")
    for s,t in x.items():
        print(s)
        for k in t:
            print(k)
        print()
    amenu2.close()
```

```
def activ_time():
    actlist2=[]
    while 1:
        per=input("Enter id number of the activity required: ")
        actlist2.append(per)
        ask3=input("add another?(y/n) ")
        if ask3=='n':
            break
    amenu3=open("activities.dat",'rb')
    try:
        while True:
            x=pickle.load(amenu3)
    except:
        print("(search complete)\n")
    t_time=0
    actlist3=[]
    for s,t in x.items():
        for k in t:
            if k[0] in actlist2:
                actlist3.append(k)
                t_time=t_time+k[2]
    print("Total time duration:",t_time)
    print(actlist3)
    r_time=int(input("Enter required time for the event(min): "))

    if r_time>=t_time:
        print("Your total event time fit well with the time duration of the activities.")
    else:
        diff=t_time-r_time
        print("Time duration exceeds the total event time by",diff,"minutes")
        ask4=input("Do you want to remove some activity from your list?(y/n)")
        if ask4=='y':
            while t_time>r_time:
                rem=eval(input("Enter in list the id numbers of the activities to remove: "))
                for p in actlist3:
                    if p[0] in rem:
                        actlist3.remove(p)
                        t_time=t_time-p[2]
                print("Current Time Duration",t_time)
            print("\nTotal time duration:",t_time)
            print(actlist3)
            print("Now, your total event time fit well with the time duration of the activities.")
    amenu3.close()


while True:
    print("\n\n")
    print("="*58)
    print("\t\t\t\t\t\tActivities")
    print("-"*58)
    print("(a) Create a participant list")
    print("(b) Display participant list")
    print("(c) Total time calculated with the required participants")
    print("(d) Leave Topic: Activities")
    ask1=input("Enter your choice:")
    if ask1=="a":
        activ_create()
    elif ask1=="b":
        activ_showcase()
    elif ask1=="c":
        activ_time()
    elif ask1=="d":
        break
```

invitation.py

```
import csv

def invit_draft():
    imenu1=open("draft.txt",'r')
    formats=imenu1.readlines()
    print('--'*26)
    for i in formats:
        print(i)
    print('--'*26)
    imenu1.close()


def invit_showcase():
    print('''RWA Member (RM)
Guest (G)
Participant (P)
Special Guest (SG)''')
    imenu2=open("invitations.csv",'r')
    info1=csv.reader(imenu2)
    info2=[]
    for i in info1:
        if len(i)>0:
            info2.append(i)
    info2.pop(0)
    for j in info2:
        print(j)
    imenu2.close()


def invit_add():
    imenu3=open("invitations.csv",'a')
    t=input("Enter category(P/G/RM/SG): ")
    n=input("Enter name: ")
    cont=input("Enter contact number: ")
    ad=input("Enter address: ")
    email=input("Enter email id: ")
    rec=[t,n,cont,ad,email]
    x=csv.writer(imenu3)
    x.writerow(rec)
    imenu3.close()
```

```
def invit_emailid():
    print('''RWA Member (RM)
Guest (G)
Participant (P)
Special Guest (SG)''')
    imenu4=open("invitations.csv",'r')
    info3=csv.reader(imenu4)
    info4=[]
    for i in info3:
        if len(i)>0:
            info4.append(i)
    info4.pop(0)
    cat=[]
    for j in info4:
        if j[0] not in cat:
            cat.append(j[0])
    ilist1=[]
    for k in info4:
        email=k[4].split('@')
        name=email[0]
        ilist1.append([k[0],name])
    idict1={}
    for p in cat:
        ilist2=[]
        for q in ilist1:
            if q[0]==p:
                ilist2.append(q[1])
        idict1.update({p:ilist2})
    ask2=input("Enter the category of people you want ids of: ")
    its='no'
    for s,t in idict1.items():
        if s==ask2:
            print(t)
            its='yes'
    if its=='no':
        print("No one from this category found")
    imenu4.close()

while True:
    print("\n\n")
    print("="*55)
    print("\t\t\t\t\tInvitations")
    print("-"*55)
    print("(a) Display Draft for invitation")
    print("(b) Display information about people in the event")
    print("(c) Add information about another member")
    print("(d) Get email ids of all the people from a category")
    print("(e) Leave Topic: Invitations")
    ask1=input("Enter your choice:")
    if ask1=="a":
        invit_draft()
    elif ask1=="b":
        invit_showcase()
    elif ask1=="c":
        invit_add()
    elif ask1=="d":
        invit_emailid()
    elif ask1=="e":
        break
```

Output Screens

```
================================================
            Welcome to RWA System
================================================
A. The RWA Group
B. Loan and Bill Department
C. Society Grocery
D. Privileges to the Orphanage/ Old Age Home
E. Events in the Society
F. EXIT

Enter your choice(A-F): A


----------------------------------------
            The RWA Group
----------------------------------------
1. Members
2. Notice Board
3. File a complaint
4. Leave The RWA Group

Enter your pick: 1
(1, 'Suman Pal', 'President', 'F 0907')
(2, 'Amit Kumar', 'Vice President', 'B 1302')
(3, 'Tarun Singh', 'General Secretary', 'L 0404')
(4, 'Alok Rastogi', 'Treasurer', 'P 0603')
(5, 'Shashi Narayan', 'Jt.Treasurer', 'M 1503')
(6, 'Neetu Saxena', 'Jt.Secretary', 'N 1301')
(7, 'Shailendra Chaudhary', 'Member', 'G 0401')
(8, 'Amit singh', 'Member', 'J 1202')
(9, 'Krishnan Anand', 'Member', 'B 0404')
(10, 'Alok Gupta', 'Member', 'C 0402')

----------------------------------------
            The RWA Group
----------------------------------------
1. Members
2. Notice Board
3. File a complaint
4. Leave The RWA Group

Enter your pick: 2
```

```
(1, 'Financial Updates', 'Detailed audit report will be published & shared with
residents shortly for the complete financial year.')
(2, 'Building Repair', 'Building Repair project is completely successfully and
warranty of 4 years has been signed by vendor.')
(3, 'Action on SGRWA defaulters', 'Civil Suit has been filed against some residents
who have still not paid their Os dues.')
(4, 'Legal updates', 'SGRWA has filed complaint with DR for making old office bearers
to get audit of their tenure done.')
(5, 'DG (Power Back up) Status', 'Fully functional cooling tower has been erected in
DG room')
(6, 'Electrical Equipment upkeep & maintenance', 'Dressing of LT panels situated in C
& N block is being done currently.')
(7, 'Club House', 'Both wash rooms inside club are being renovated.Open Terrace party
space has been created with pantry facility.')
(8, 'Society entrance renovation', 'One of the best Main gate in indirapuram has been
renovated and fully functional now.')
(9, 'Miscellaneous Updates', 'Separate toilets for maids and drivers has been made so
that they do not use club toilets.')
(10, 'Electricity metering system', 'Few residents need to change their meter as they
are defective and not giving readings')
(11, 'Fire Fighting Repair', 'Fire Lines, Sprinklers & Hydrants in all towers have
been energized and tested.')

----------------------------------------
            The RWA Group
----------------------------------------
1. Members
2. Notice Board
3. File a complaint
4. Leave The RWA Group

Enter your pick: 3

Kindly write your complain here:The sewage system is not working properly
Your complain has been registered!
We will try to resolve your problem as soon as possible

----------------------------------------
            The RWA Group
----------------------------------------
1. Members
2. Notice Board
3. File a complaint
4. Leave The RWA Group

Enter your pick: 4
```

```
==================================================
            Welcome to RWA System
==================================================
A. The RWA Group
B. Loan and Bill Department
C. Society Grocery
D. Privileges to the Orphanage/ Old Age Home
E. Events in the Society
F. EXIT

Enter your choice(A-F): B

==========================================

       WELCOME TO LOAN AND BILL DEPARTMENT

==========================================

['NAME', 'BILL PAID/UNPAID', 'LOAN', 'SOCIETY FEE PAID/UNPAID']
['Mohan', 'Bill Unpaid', '0', 'Fee Paid']
['Ananyaa', 'Bill Paid', '0', 'Fee Paid']
['Arun', 'Bill Unpaid', '10000', 'Fee Paid']
['Anushka', 'Bill Paid', '5000', 'Fee Paid']
['Divyanka', 'Bill Paid', '0', 'Fee Unpaid']

          MAIN MENU

          1. Electricity/Water Bill
          2. Loan Payment
          3. Society Maintenance Fee
          4. Exit

ENTER YOUR CHOICE (1/2/3/4): 1

          1. ELECTRICITY PRICE - Rs. 2000 per month
          2. WATER PRICE - Rs. 3000 per month

          TOTAL AMOUNT = Rs. 5000


Enter your name: Mohan
Please deposit Rs. 5000

Enter here: 5000
['NAME', 'BILL PAID/UNPAID', 'LOAN', 'SOCIETY FEE PAID/UNPAID']
['Mohan', 'Bill Paid', '0', 'Fee Paid']
['Ananyaa', 'Bill Paid', '0', 'Fee Paid']
['Arun', 'Bill Unpaid', '10000', 'Fee Paid']
['Anushka', 'Bill Paid', '5000', 'Fee Paid']
['Divyanka', 'Bill Paid', '0', 'Fee Unpaid']
```

```
          MAIN MENU

          1. Electricity/Water Bill
          2. Loan Payment
          3. Society Maintenance Fee
          4. Exit


ENTER YOUR CHOICE (1/2/3/4): 1

          1. ELECTRICITY PRICE - Rs. 2000 per month
          2. WATER PRICE - Rs. 3000 per month

          TOTAL AMOUNT = Rs. 5000


Enter your name: Ananyaa
You have already paid the bill.


          MAIN MENU

          1. Electricity/Water Bill
          2. Loan Payment
          3. Society Maintenance Fee
          4. Exit


ENTER YOUR CHOICE (1/2/3/4): 2

Enter your name: Arun
interest amount Rs. 2000

AMOUNT TO PAY: 12000

pls pay here: 12000
Loan Paid!

['NAME', 'BILL PAID/UNPAID', 'LOAN', 'SOCIETY FEE PAID/UNPAID']
['Mohan', 'Bill Paid', '0', 'Fee Paid']
['Ananyaa', 'Bill Paid', '0', 'Fee Paid']
['Arun', 'Bill Unpaid', '0', 'Fee Paid']
['Anushka', 'Bill Paid', '5000', 'Fee Paid']
['Divyanka', 'Bill Paid', '0', 'Fee Unpaid']

         MAIN MENU

         1. Electricity/Water Bill
         2. Loan Payment
         3. Society Maintenance Fee
         4. Exit
```

```
ENTER YOUR CHOICE (1/2/3/4): 2

Enter your name: Anushka
interest amount Rs. 2000

AMOUNT TO PAY: 7000

pls pay here: 5000
Please enter correct amount and try again.


          MAIN MENU

          1. Electricity/Water Bill
          2. Loan Payment
          3. Society Maintenance Fee
          4. Exit


ENTER YOUR CHOICE (1/2/3/4): 3

          SOCIETY MAINTENANCE FEE - Rs. 500 per month


Enter your name: Divyanka

Enter amount: 500
Fee paid!
['NAME', 'BILL PAID/UNPAID', 'LOAN', 'SOCIETY FEE PAID/UNPAID']
['Mohan', 'Bill Paid', '0', 'Fee Paid']
['Ananyaa', 'Bill Paid', '0', 'Fee Paid']
['Arun', 'Bill Unpaid', '0', 'Fee Paid']
['Anushka', 'Bill Paid', '5000', 'Fee Paid']
['Divyanka', 'Bill Paid', '0', 'Fee paid']


          MAIN MENU

          1. Electricity/Water Bill
          2. Loan Payment
          3. Society Maintenance Fee
          4. Exit


 ENTER YOUR CHOICE (1/2/3/4): 4
```

```
==================================================
            Welcome to RWA System
==================================================
A. The RWA Group
B. Loan and Bill Department
C. Society Grocery
D. Privileges to the Orphanage/ Old Age Home
E. Events in the Society
F. EXIT

Enter your choice(A-F): C


==========================================

        WELCOME TO THE GROCERY STORE

==========================================

MAIN MENU
          1. Shop for Items
          2. Billing Counter
          3. Return Damaged Goods
          4. Exit


What do you want to do? (1/2/3/4): 1


                 a. fruits
                 b. vegetables
                 c. dairy products
                 d. done and exit


enter your choice of item (a/b/c/d):a
['Name', 'Qty', 'Price per unit']
['Apple', '1000', '10']
['Banana', '400', '10']
['Guava', '50', '20']
['Orange', '1000', '15']
['Grapes', '500', '30']


item name: Banana

how much do you need?: 20

                  a. fruits
                  b. vegetables
                  c. dairy products
                  d. done and exit
```

```
enter your choice of item (a/b/c/d):b
['Name', 'Qty', 'Price']
['Potato', '1000', '5']
['Onion', '800', '10']
['Cabbage', '50', '20']
['Tomato', '1000', '10']
['Carrot', '500', '15']
['Ladyfinger', '1000', '4']


item name: Carrot

how much do you need?: 10

                a. fruits
                b. vegetables
                c. dairy products
                d. done and exit


enter your choice of item (a/b/c/d):c
['Name', 'Qty(in litres)', 'Price']
['Milk', '1000', '100']
['Yogurt', '30', '100']
['Paneer', '50', '200']

item name: Yogurt

how much do you need?: 2

                  a. fruits
                  b. vegetables
                  c. dairy products
                  d. done and exit


enter your choice of item (a/b/c/d):d
YOUR BASKET SUMMARY:
['ITEM', 'QTY', 'PRICE']
['Banana', '20', '200']
['Carrot', '10', '150']
['Yogurt', '2', '200']

MAIN MENU
          1. Shop for Items
          2. Billing Counter
          3. Return Damaged Goods
          4. Exit


What do you want to do? (1/2/3/4): 2
```

```
AMOUNT TO BE PAID: 550

MAIN MENU
          1. Shop for Items
          2. Billing Counter
          3. Return Damaged Goods
          4. Exit


What do you want to do? (1/2/3/4): 3


enter the type of item u want to return (fruits/vegetables/dairy): fruits

enter fruit name: Banana

enter quantity:2
HERE IS THE AMOUNT WE PAY YOU BACK: 20

MAIN MENU
          1. Shop for Items
          2. Billing Counter
          3. Return Damaged Goods
          4. Exit


What do you want to do? (1/2/3/4): 4



==================================================
            Welcome to RWA System
==================================================
A. The RWA Group
B. Loan and Bill Department
C. Society Grocery
D. Privileges to the Orphanage/ Old Age Home
E. Events in the Society
F. EXIT

Enter your choice(A-F): D
------------------------------------------------------------
        Privileges to the Orphanage/ Old Age Home
------------------------------------------------------------
1. Orphanage
2. Old Age Home
3. Leave Privileges to the Orphanage/ Old Age Home

Enter your pick: 1
```

```
MAIN MENU
          1. To view Orphanage
          2. To add a record in Orphanage
          3. To delete a record in Orphanage
          4. Exit


What do you want to do? (1/2/3/4): 1

(1, 'Saima', 'datetime.date(2006,12,13)', 15, 'F')
(2, 'Sarul', 'datetime.date(2011,09,23)', 11, 'F')
(3, 'Gaurang', 'datetime.date(2005,02,1)', 16, 'M')
(4, 'Lakshay', 'datetime.date(2006,05,12)', 15, 'M')
(5, 'Divyansh', 'datetime.date(2007,01,13)', 15, 'M')
(6, 'Danica', 'datetime.date(2013,10,19)', 9, 'F')
(7, 'Mahi', 'datetime.date(2015,05,27)', 7, 'F')
(8, 'Tvarita', 'datetime.date(2017,12,25)', 5, 'F')
(9, 'Krishang', 'datetime.date(2014,12,01)', 8, 'M')
(10, 'Kartik', 'datetime.date(2010,11,15)', 12, 'M')


MAIN MENU
          1. To view Orphanage
          2. To add a record in Orphanage
          3. To delete a record in Orphanage
          4. Exit


What do you want to do? (1/2/3/4): 3


enter the name whose info needs to be deleted:Tvarita
record deleted


 MAIN MENU
           1. To view Orphanage
           2. To add a record in Orphanage
           3. To delete a record in Orphanage
           4. Exit


 What do you want to do? (1/2/3/4): 4
```

```
------------------------------------------------------------
        Privileges to the Orphanage/ Old Age Home
------------------------------------------------------------
1. Orphanage
2. Old Age Home
3. Leave Privileges to the Orphanage/ Old Age Home

Enter your pick: 2

MAIN MENU
          1. To view Old age home
          2. To add a record in Old age home
          3. To delete a record in Old age home
          4. Exit


What do you want to do? (1/2/3/4): 1

(1, 'Babita Sharma', 65, 'datetime.date(2000,12,13)', 'F')
(2, 'Sushma Sangwan', 67, 'datetime.date(2001,09,23)', 'F')
(3, 'Manmohan Singh', 68, 'datetime.date(2000,12,01)', 'M')
(4, 'Lalit Mohan', 75, 'datetime.date(2002,05,22)', 'M')
(5, 'Kamlesh Yadav', 62, 'datetime.date(2007,02,13)', 'M')
(6, 'Sarla Devi', 72, 'datetime.date(2002,11,19)', 'F')
(7, 'Karuna Malik', 81, 'datetime.date(2000,05,27)', 'F')
(8, 'Shailesh Rathore', 82, 'datetime.date(2003,12,05)', 'M')
(9, 'Jailendra Sharma', 73, 'datetime.date(2007,10,11)', 'M')
(10, 'Pushpa Gaur', 59, 'datetime.date(2001,01,05)', 'F')


MAIN MENU
          1. To view Old age home
          2. To add a record in Old age home
          3. To delete a record in Old age home
          4. Exit


What do you want to do? (1/2/3/4): 3


enter the name whose info needs to be deleted:Karuna Malik
record deleted

MAIN MENU
          1. To view Old age home
          2. To add a record in Old age home
          3. To delete a record in Old age home
          4. Exit


What do you want to do? (1/2/3/4): 4
```

```
------------------------------------------------------------
        Privileges to the Orphanage/ Old Age Home
------------------------------------------------------------
1. Orphanage
2. Old Age Home
3. Leave Privileges to the Orphanage/ Old Age Home

Enter your pick: 3




==================================================
            Welcome to RWA System
==================================================
A. The RWA Group
B. Loan and Bill Department
C. Society Grocery
D. Privileges to the Orphanage/ Old Age Home
E. Events in the Society
F. EXIT

Enter your choice(A-F): E
----------------------------------------
                EVENTS
----------------------------------------
1. Food
2. Articles
3. Activities
4. Invitations
5. Leave EVENTS

Enter your pick: 1


==============================================
                    FOOD
----------------------------------------------
(a) Showcase current Menu
(b) Search for an item from the current Menu
(c) Create a new Menu
(d) Leave Topic: Food

Enter your choice:a
(search complete)
```

```
<item,price,quantity>

Snacks
['cheeseball', 20, 60]
['babycorn', 20, 60]

Main_course
['paneer', 30, 60]
['chhola', 30, 50]
['naan', 25, 70]
['roti', 20, 70]
['puri', 25, 50]
['rice', 15, 80]
['lasagna', 100, 20]
['pasta', 70, 40]

Dessert
['icecream', 25, 60]
['cake', 60, 75]
['rasgulla', 40, 50]

Beverage
['tea', 15, 85]
['coffee', 15, 75]
['smoothie', 25, 15]
['thumsup', 20, 65]
['maaza', 20, 65]

Extras
['chocolate', 10, 60]
['fruitmix', 35, 50]
['water', 5, 150]



================================================
                    FOOD
------------------------------------------------
(a) Showcase current Menu
(b) Search for an item from the current Menu
(c) Create a new Menu
(d) Leave Topic: Food

Enter your choice:b

Enter the name of the item to be searched:tea
(search complete)
In Beverage : tea , price- 15 , quantity- 85
```

```
==============================================
                    FOOD
----------------------------------------------
(a) Showcase current Menu
(b) Search for an item from the current Menu
(c) Create a new Menu
(d) Leave Topic: Food

Enter your choice:c

Choose course: Snacks/Main_course/Dessert/Beverage/Extras: Snacks

Enter name of food item: chips

Enter price of one piece: 20

Enter quantity of the item needed: 30

add another?(y/n)y

Enter name of food item: rolls

Enter price of one piece: 10

Enter quantity of the item needed: 40

add another?(y/n)n

add another course?(y/n)n


==============================================
                    FOOD
----------------------------------------------
(a) Showcase current Menu
(b) Search for an item from the current Menu
(c) Create a new Menu
(d) Leave Topic: Food

Enter your choice:d


----------------------------------------
                EVENTS
----------------------------------------
1. Food
2. Articles
3. Activities
4. Invitations
5. Leave EVENTS

Enter your pick: 2
```

```
==================================================
                    Articles
--------------------------------------------------
(a) Showcase list of articles type-wise
(b) Find the total amount for required articles
(c) Add another article
(d) Create a completely new list of articles
(e) Leave Topic: Articles

Enter your choice:a
Decoration (D)
Furniture (F)
Gift (G)
Specific (S)

D :
['1', 'fairylights', '250']
['2', 'fakeflowers', '50']
['3', 'sheets', '50']
['4', 'balloons', '20']
['8', 'lanterns', '100']
['9', 'pots', '40']
['10', 'dreamcatcher', '100']
['11', 'tassels', '50']
['14', 'ribbon', '20']
['15', 'drapes', '450']

F :
['5', 'chairs', '300']
['6', 'tables', '500']
['7', 'board', '200']

G :
['12', 'scentedcandles', '220']
['17', 'bowls', '210']

S :
['13', 'rangolicolours', '40']
['16', 'firecrackers', '100']


==================================================
                    Articles
--------------------------------------------------
(a) Showcase list of articles type-wise
(b) Find the total amount for required articles
(c) Add another article
(d) Create a completely new list of articles
(e) Leave Topic: Articles

Enter your choice:b

Enter article number: 5

Enter the quantity required: 50

more articles?(y/n)y
```

```
Enter article number: 12

Enter the quantity required: 20

more articles?(y/n)y

Enter article number: 1

Enter the quantity required: 15

more articles?(y/n)y

Enter article number: 14

Enter the quantity required: 10

more articles?(y/n)n

Your Bill:
<Article-Quantity-Cost>
chairs--50--15000
scentedcandles--20--4400
fairylights--15--3750
ribbon--10--200

Total Cost is: 23350



==================================================
                    Articles
--------------------------------------------------
(a) Showcase list of articles type-wise
(b) Find the total amount for required articles
(c) Add another article
(d) Create a completely new list of articles
(e) Leave Topic: Articles

Enter your choice:c

Article number:18

Article name:diya

Price:10

Decoration (D),
Furniture (F),
Gift (G)
Specific (S)

Enter type of article:S

add another?(y/n)n
```

```
==================================================
                    Articles
--------------------------------------------------
(a) Showcase list of articles type-wise
(b) Find the total amount for required articles
(c) Add another article
(d) Create a completely new list of articles
(e) Leave Topic: Articles

Enter your choice:d

Article number:1

Article name:candles

Price:25

Decoration (D),
Furniture (F),
Gift (G)
Specific (S)

Enter type of article:D

add another?(y/n)y

Article number:2

Article name:table

Price:100

Decoration (D),
Furniture (F),
Gift (G)
Specific (S)

Enter type of article:F

add another?(y/n)n



==================================================
                    Articles
--------------------------------------------------
(a) Showcase list of articles type-wise
(b) Find the total amount for required articles
(c) Add another article
(d) Create a completely new list of articles
(e) Leave Topic: Articles

Enter your choice:e
```

```
----------------------------------------
                EVENTS
----------------------------------------
1. Food
2. Articles
3. Activities
4. Invitations
5. Leave EVENTS

Enter your pick: 3


============================================================
                       Activities
------------------------------------------------------------
(a) Create a participant list
(b) Display participant list
(c) Total time calculated with the required participants
(d) Leave Topic: Activities

Enter your choice:a

Enter type of activity(Games/Dance/Sing/Play): Games

Number of activities to add in this category: 2

Enter id number:G1

Enter name: Balloon

Enter time duration(min): 20

Enter id number:G2

Enter name: Chair

Enter time duration(min): 25

Add for another type?(y/n) y

Enter type of activity(Games/Dance/Sing/Play): Dance

Number of activities to add in this category: 1

Enter id number:D1

Enter name: Shreya

Enter time duration(min): 5

Add for another type?(y/n) n
```

```
 ============================================================
                         Activities
 ------------------------------------------------------------
 (a) Create a participant list
 (b) Display participant list
 (c) Total time calculated with the required participants
 (d) Leave Topic: Activities

 Enter your choice:b
 (search complete)
 Activities in respective categories with time duration(min):

 Games
 ['G1', 'musical chairs', 15]
 ['G2', 'paper dance', 10]
 ['G3', 'Tambola', 20]
 ['G4', 'inside the box', 10]

 Sing
 ['S1', 'Amrita performance', 5]
 ['S2', 'The Public Band performance', 20]

 Play
 ['P1', 'Red Riding Hood', 15]
 ['P2', 'Family Comedy', 20]

 Dance
 ['D1', '5-7 yr olds performance', 5]
 ['D2', 'Saanya classical performance', 6]
 ['D3', 'DJ', 30]

============================================================
                         Activities
------------------------------------------------------------
(a) Create a participant list
(b) Display participant list
(c) Total time calculated with the required participants
(d) Leave Topic: Activities

Enter your choice:c

Enter id number of the activity required: G1

add another?(y/n) y

Enter id number of the activity required: G2

add another?(y/n) y

Enter id number of the activity required: S2

add another?(y/n) y

Enter id number of the activity required: P2

add another?(y/n) y
```

```
Enter id number of the activity required: D2

add another?(y/n) y

Enter id number of the activity required: D3

add another?(y/n) n
(search complete)

Total time duration: 101
[['G1', 'musical chairs', 15], ['G2', 'paper dance', 10], ['S2', 'The Public Band
performance', 20], ['P2', 'Family Comedy', 20], ['D2', 'Saanya classical
performance', 6], ['D3', 'DJ', 30]]

Enter required time for the event(min): 60
Time duration exceeds the total event time by 41 minutes

Do you want to remove some activity from your list?(y/n)y

Enter in list the id numbers of the activities to remove: ['S2','G1']
Current Time Duration 66

Enter in list the id numbers of the activities to remove: ['D2']
Current Time Duration 60

Total time duration: 60
[['G2', 'paper dance', 10], ['P2', 'Family Comedy', 20], ['D3', 'DJ', 30]]
Now, your total event time fit well with the time duration of the activities.



============================================================
                        Activities
------------------------------------------------------------
(a) Create a participant list
(b) Display participant list
(c) Total time calculated with the required participants
(d) Leave Topic: Activities

Enter your choice:d

----------------------------------------
                EVENTS
----------------------------------------
1. Food
2. Articles
3. Activities
4. Invitations
5. Leave EVENTS

Enter your pick: 4
```

```
 ========================================================
                     Invitations
 --------------------------------------------------------
 (a) Display Draft for invitation
 (b) Display information about people in the event
 (c) Add information about another member
 (d) Get email ids of all the people from a category
 (e) Leave Topic: Invitations

 Enter your choice:a
 -------------------------------------------------
                    --Society--

   requests the pleasure of your benign presence

            on the auspicious occasion of

                    <event name>

                      at <venue>

                      <address>

                at <time> on <date>

 RSVP

 <president name>

 <contact details>
 -------------------------------------------------


========================================================
                     Invitations
--------------------------------------------------------
(a) Display Draft for invitation
(b) Display information about people in the event
(c) Add information about another member
(d) Get email ids of all the people from a category
(e) Leave Topic: Invitations

Enter your choice:b
RWA Member (RM)
Guest (G)
Participant (P)
Special Guest (SG)
['P', 'Shailesh Aggarwal', '9854613567', 'I Block- 212', 'shai.agg123@gmail.com']
['P', 'Neetu Yadav', '8456798512', 'I Block- 210', 'neetuy77@gmail.com']
['G', 'Aman Rishi', '8862975438', 'J Block- 232', 'amanrishi@gmail.com']
['SG', 'Mina Yadav', '8775461956', 'Housing Board- 145', 'minayadav354@gmail.com']
['G', 'Anand Patel', '9451653895', 'H Block- 182', 'anandp111@gmail.com']
['RM', 'Arun Srivastava', '9754618264', 'G Block- 170',
'arun.srivastava2601@gmail.com']
['RM', 'Charu Sharma', '8548963215', 'F Block- 164', 'anveesharma2312@gmail.com']
['G', 'Arpit Saxena', '9654158965', 'H Block- 186', 'arpitsaxena98@gmail.com']
['P', 'Manya Sinha', '8569874125', 'I Block- 232', 'msinha3@gmail.com']
```

```
==========================================================
                    Invitations
----------------------------------------------------------
(a) Display Draft for invitation
(b) Display information about people in the event
(c) Add information about another member
(d) Get email ids of all the people from a category
(e) Leave Topic: Invitations

Enter your choice:c

Enter category(P/G/RM/SG): SG

Enter name: Pooja Sharma

Enter contact number: 8895698745

Enter address: Vipul Greens- 213

Enter email id: poojas23@gmail.com



==========================================================
                    Invitations
----------------------------------------------------------
(a) Display Draft for invitation
(b) Display information about people in the event
(c) Add information about another member
(d) Get email ids of all the people from a category
(e) Leave Topic: Invitations

Enter your choice:d
RWA Member (RM)
Guest (G)
Participant (P)
Special Guest (SG)
Enter the category of people you want ids of: RM
['arun.srivastava2601', 'anveesharma2312']



==========================================================
                    Invitations
----------------------------------------------------------
(a) Display Draft for invitation
(b) Display information about people in the event
(c) Add information about another member
(d) Get email ids of all the people from a category
(e) Leave Topic: Invitations

Enter your choice:e
```

```
================================================
            Welcome to RWA System
================================================
A. The RWA Group
B. Loan and Bill Department
C. Society Grocery
D. Privileges to the Orphanage/ Old Age Home
E. Events in the Society
F. EXIT

Enter your choice(A-F): F
THANK YOU!!
```

Future Scope of the Project

The project will help residents go paperless and quickly get their work done at their homes. It holds a lot of potential as implementing the idea will benefit society. In the future, this project can be given a place in an internet portal where it can aid any organization. It can be used to pay fees, whether it is about paying water or electricity bills or taking financial aid without any hustle and bustle, directly through the platform. A voting system can also be included so that the association is fair and accessible. Subsequently, we can take ideas from different people from various cultures and backgrounds and embrace them in the project. With further walk in the advancement of technology, one can see the gradual development of rudimentary programs that can progress them to greater levels.

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