

# Object Oriented Programing



Department of Computing  
Hamdard Institute of Engineering & Technology  
Hamdard University

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## Resturant Management System

### *Project Report*

#### **Group Members:**

Nabeel Rizwan 1019-2019  
Hamza Khan 1309-2019  
Hassan Lodhi 1341-2019

#### **Instructor:**

Sir Faheem Ahmed

# 1. Introduction

This is a software that is used for ordering food using a graphic user interface. It is intended to be used as a way to place your order using a simple to use interface. Customers can fill the required information and can place an order with ease.

## 1.1 Purpose

The main aim of this project is to remove the manual labor of placing orders in a restaurant. The Restaurant Management System takes a step in the right direction by automating this process. Using this software managers can easily keep a record of all of the orders placed and also print the relevant receipt

## 1.2 Project Scope

This software can be implemented in a variety of different places from public libraries to schools and universities. Food is an essential requirement for life. This software will help make ordering and managing it simple and efficient for both customer and employee. It will also help employees keep records in a more efficient manner.

## 1.3 Product Features

**This software has the following features:**

1. Can generate a unique order number for each customer.
2. Can save the quantity of each item ordered along with its price in a text file.
3. Can save the cumulative total of all the items ordered.
4. Can generate a bill of the order.
5. Can record and store multiple orders and save them in a text file.
6. Can view previously stored bills in file via button.

## 2. System Features

This software provides a linear and simple path to follow to order food. When the program is first started up it prompts the user for personal information that will be relevant for the order. Then to select the items that you want. Lastly to checkout you press the total button after which you can collect your receipt.

They are explained in full in the following paragraph:

### 2.1 Description and Priority

- Customer data

First and foremost the program requires the data of the customer so that it can arrange the delivery by managing time.

- Items to purchase

Second priority is the food items selected by the customer which record the quantity of each item.

- Calculating and storing the data

Third priority is calculating the values with the respective values stored in variables. Then storing it in a text file for later viewing.

- Displaying the receipt

Fourth priority is to generate the receipt of the total amount with miscellaneous charges. It is refreshed after each total for each order.

- Displaying Database

Fifth priority is to display the all the past receipts which are stored in a separate text file then the receipt file. It can also be cleared.

### 2.2 Functional Requirements

**Mentioned below are Certain conditions need to be met for the program to be run as intended.**

1. The program needs to be opened in a machine with Python ver. 3.9 or above otherwise the program will not run
2. The program requires extra libraries which need to be installed using the pip command in CMD or else the program will not run.
3. Inputs must be in integers or floating point otherwise an error will cause the program to not run.

### 3. Python Functions used

*Following are the python functions used in this program*

- Library of tkinter, Random
- File Handling writing and reading
- Class and constructor
- Multiple method declared and used
- Multiple for Loops
- Global data declaration
- String and Integer as data types

## 4. Project Code

```
#-----Importing
libraries-----

from tkinter import *
import random
import Pmw
from PIL import ImageTk

#-----Dimentions
Gui-----

root = Tk()

Heading = Frame(root)
Heading.pack(side=TOP)

f1 = Frame(root)
f1.pack(side=TOP)

f1 = Canvas(root)
f1.pack(expand = YES, fill = BOTH)

image = ImageTk.PhotoImage(file = "F:\Studies\VSCode\Final lab\images\RMS.jpg")
f1.create_image(0, 0, image = image, anchor = NW)

#-----Declaring
variables-----

order = StringVar()

item_1 = StringVar()
item_2 = StringVar()
item_3 = StringVar()
item_4 = StringVar()
item_5 = StringVar()

Subtotal = StringVar()
Service_Charge = StringVar()
Tax = StringVar()
Total = StringVar()

customerName = StringVar()
customerPhone = StringVar()
customerAdd = StringVar()

item_1_name = "Special Biryani 1/2 kg"
item_2_name = "White Korma 1/2 kg"
item_3_name = "Matka Karhai 1/2 kg"
item_4_name = "Tandoori Naan"
item_5_name = "Extra Cold Drink"

item_1_cost = 120
item_2_cost = 550
item_3_cost = 500
```

```

item_4_cost = 10
item_5_cost = 55

#-----Decalring
Functions-----

def total():

    #Recipet for Database
    f = open("recipt.txt", "a")

    clearReceipt
    #Recipet for Customer
    fl = open("customerReciept.txt", "w")

    x=random.randint(10000, 50000)
    randomRef = str(x)
    order.set(randomRef)
    f.write("\n-----")
    f.write("\n\t\tOrder no: {}".format(randomRef))
    fl.write("\n-----")
    fl.write("\n\t\tOrder no: {}".format(randomRef))

    #Taken in float for calculations
    quantityofitem_1 =float(item_1.get())
    quantityofitem_2= float(item_2.get())
    quantityofitem_3= float(item_3.get())
    qunttityofitem_4= float(item_4.get())
    qunttityofitem_5 = float(item_5.get())

    #taken in string
    customersName = str(customerName.get())
    customersPhone = str(customerPhone.get())
    customersAdd = str(customerAdd.get())

    f.write("\n\nCustomer Name \t\t\t: {}".format(customersName))
    f.write("\nCustomer Contact no. \t\t: {}".format(customersPhone))
    f.write("\nDilivery Address \t\t\t: {}".format(customersAdd))
    f.write("\n\nOrder ")

    fl.write("\n\nCustomer Name \t\t\t: {}".format(customersName))
    fl.write("\nCustomer Contact no. \t\t: {}".format(customersPhone))
    fl.write("\nDilivery Address \t\t\t: {}".format(customersAdd))
    fl.write("\n\nOrder ")

    costofitem_1 = quantityofitem_1 * item_1_cost
    costofitem_2 = quantityofitem_2 * item_2_cost
    costofitem_3 = quantityofitem_3 * item_3_cost
    costofitem_4 = qunttityofitem_4 * item_4_cost
    costofitem_5 = qunttityofitem_5 * item_5_cost

    f.write("\n\n{} ({} x {}) = Rs. {}".format(item_1_name, item_1_cost,
quantityofitem_1,costofitem_1))
    f.write("\n{} ({} x {}) = Rs. {}".format(item_2_name, item_2_cost,
quantityofitem_2, costofitem_2))
    f.write("\n{} ({} x {}) = Rs. {}".format(item_3_name, item_3_cost,
quantityofitem_3, costofitem_3))

```

```

        f.write("\n{} ({} x {})" = Rs. {}".format(item_4_name, item_4_cost,
quanttityofitem_4,costofitem_4))
        f.write("\n{} ({} x {})" = Rs. {}".format(item_5_name, item_5_cost,
quanttityofitem_5, costofitem_5))

        f1.write("\n\n{} ({} x {})" = Rs. {}".format(item_1_name, item_1_cost,
quantityofitem_1,costofitem_1))
        f1.write("\n{} ({} x {})" = Rs. {}".format(item_2_name, item_2_cost,
quantityofitem_2, costofitem_2))
        f1.write("\n{} ({} x {})" = Rs. {}".format(item_3_name, item_3_cost,
quantityofitem_3, costofitem_3))
        f1.write("\n{} ({} x {})" = Rs. {}".format(item_4_name, item_4_cost,
quanttityofitem_4,costofitem_4))
        f1.write("\n{} ({} x {})" = Rs. {}".format(item_5_name, item_5_cost,
quanttityofitem_5, costofitem_5))

        Totalcost=(costofitem_1 + costofitem_2 + costofitem_3 + costofitem_4 +
costofitem_5 )
        costofmeal = "Rs.",str('%.2f'% (Totalcost))
        Totalcost = int(Totalcost)
        f.write("\n\nSub total" = Rs. {}".format(Totalcost))
        f1.write("\n\nSub total" = Rs. {}".format(Totalcost))

        Ser_Charge=((Totalcost)/99)
        Service="Rs.",str('%.2f'% Ser_Charge)
        Ser_Charge = int(Ser_Charge)
        f.write("\nService Charges" = Rs. {}".format(Ser_Charge))
        f1.write("\nService Charges" = Rs. {}".format(Ser_Charge))

        PayTax=((Totalcost)*0.33)
        PaidTax="Rs.",str('%.2f'% PayTax)
        PayTax = int(PayTax)
        f.write("\nTax" = Rs. {}".format(PayTax))
        f1.write("\nTax" = Rs. {}".format(PayTax))

        OverAllCost = PayTax + Totalcost + Ser_Charge
        OverAllCostPaid = "Rs.",str( OverAllCost)
        OverAllCost = int(OverAllCost)
        f.write("\nTotal" = Rs. {}".format(OverAllCost))
        f.write("\n-----")
        f1.write("\nTotal" = Rs. {}".format(OverAllCost))
        f1.write("\n-----")

        Subtotal.set(costofmeal)
        Service_Charge.set(Service)
        Tax.set(PaidTax)
        Total.set(OverAllCostPaid)

        f.close()
        f1.close()

def Randomise():

    x=random.randint(10, 99)
    randomRef = int(x)
    item_1.set(randomRef)
    x=random.randint(10, 99)

```

```

randomRef = int(x)
item_2.set(randomRef)
x=random.randint(10, 99)
randomRef = int(x)
item_3.set(randomRef)
x=random.randint(10, 99)
randomRef = int(x)
item_4.set(randomRef)
x=random.randint(10, 99)
randomRef = int(x)
item_5.set(randomRef)
x=random.randint(10, 99)

def printReceipt():
    top = Toplevel (root)
    top.geometry("450x400")
    top.title("Customer Reciept")

    filename = "customerReciept.txt"
    text = Pmw.ScrolledText(top,
        borderframe=10,
        vscrollmode='dynamic',
        hscrollmode='dynamic',
        labelpos='n',
        label_text='{}'.format(filename),
        text_width=500,
        text_height=500,
        text_wrap='none',
    )
    text.pack()

    text.insert('end', open(filename,'r').read())
    Button(top, text='Quit', command=root.destroy).pack(pady=15)
    root.mainloop()

def clearReceipt():
    f = open("customerReciept.txt", "w")
    f.truncate(0)
    f.close()

def print():
    top = Toplevel (root)
    top.geometry("450x400")
    top.title("Recipt")

    filename = "Recipt.txt"
    text = Pmw.ScrolledText(top,
        borderframe=10,
        vscrollmode='dynamic',
        hscrollmode='dynamic',
        labelpos='n',
        label_text='{}'.format(filename),
        text_width=500,
        text_height=500,
        text_wrap='none',
    )

```



```

text.pack()

text.insert('end', open(filename,'r').read())
Button(top, text='Quit', command=root.destroy).pack(pady=15)
root.mainloop()

def clearDatabase():
    f = open("Recipt.txt", "w")
    f.truncate(0)
    f.close()

def reset():
    order.set(0)
    item_1.set(0)
    item_2.set(0)
    item_3.set(0)
    item_4.set(0)
    item_5.set(0)
    Subtotal.set(0)
    Service_Charge.set(0)
    Tax.set(0)
    Total.set(0)
    customerName.set("")
    customerPhone.set("")
    customerAdd.set("")

def menu():
    roo = Tk()
    roo.geometry("390x250")
    roo.title("MENU")

    lblinfo = Label(roo, font=('aria', 20, 'bold'), text="ITEM")
    lblinfo.grid(row=0, column=0)
    lblinfo = Label(roo, font=('aria', 20, 'bold'), fg="white")
    lblinfo.grid(row=0, column=2)
    lblinfo = Label(roo, font=('aria', 20, 'bold'), text="PRICE", fg="black")
    lblinfo.grid(row=0, column=3)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_1_name))
    lblinfo.grid(row=1, column=0)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_1_cost))
    lblinfo.grid(row=1, column=3)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_2_name))
    lblinfo.grid(row=2, column=0)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_2_cost))
    lblinfo.grid(row=2, column=3)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_3_name))
    lblinfo.grid(row=3, column=0)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_3_cost))
    lblinfo.grid(row=3, column=3)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_4_name))
    lblinfo.grid(row=4, column=0)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_4_cost))
    lblinfo.grid(row=4, column=3)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_5_name) )
    lblinfo.grid(row=5, column=0)
    lblinfo = Label(roo, font=('aria', 20), text = "{}".format(item_5_cost))
    lblinfo.grid(row=5, column=3)

```

```

        root.mainloop()

def qexit():
    root.destroy()

#-----Declaring GUI
Class-----

class REM:
    def __init__(self):
        #-----GUI frame
size-----

        root.geometry("1200x660")
        root.title("Restaurant Management System")

        #-----INFO
TOP-----

        display = Label(Heading, font=( 'aria' ,30, 'bold' ),text="Restaurant
Management System" )
        display.grid(row=0,column=0)

        #-----GUI Left
text-----

        display = Label(f1, font=( 'aria', 14, 'bold' ),text="Customer Info" )
        display.grid(row=1,column=0)

        display = Label(f1, font=( 'aria', 14, 'bold' ),text="Name" )
        display.grid(row=1,column=1)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=customerName ,
bd=6,insertwidth=4,justify='left')
        input.grid(row=2,column=1)

        display = Label(f1, font=( 'aria', 14, 'bold' ),text="(Quantity)" )
        display.grid(row=3,column=1)

        display = Label(f1, font=( 'aria', 14, 'bold'
),text("{}".format(item_1_name) )
        display.grid(row=4,column=0)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=item_1 ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=4,column=1)

        display = Label(f1, font=( 'aria', 14, 'bold'
),text("{}".format(item_2_name) ,)
        display.grid(row=5,column=0)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=item_2 ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=5,column=1)

        display = Label(f1, font=( 'aria', 14, 'bold'
),text("{}".format(item_3_name) )
        display.grid(row=6,column=0)

```

```

        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=item_3 ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=6,column=1)

        display = Label(f1, font=( 'aria', 14, 'bold'
),text="{}".format(item_4_name) )
        display.grid(row=7,column=0)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=item_4 ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=7,column=1)

        display = Label(f1, font=( 'aria', 14, 'bold'
),text="{}".format(item_5_name) )
        display.grid(row=8,column=0)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=item_5 ,
bd=6,insertwidth=4 ,justify='center')
        input.grid(row=8,column=1)

#-----GUI Middle
Text-----

        display = Label(f1, font=( 'aria', 14, 'bold' ), text="Order No:\t\t")
        display.grid(row=0,column=2)
        display = Label(f1, font=('ariel', 14,'bold'), textvariable=order
,justify='center')
        display.grid(row=0,column=2)

        display = Label(f1, font=( 'aria', 14, 'bold' ),text="Contact no." )
        display.grid(row=1,column=2)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=customerPhone
, bd=6,insertwidth=4,justify='left')
        input.grid(row=2,column=2)

#-----GUI Right
Text-----

        display = Label(f1, font=( 'aria', 14, 'bold' ),text="Address" )
        display.grid(row=1,column=3)
        input = Entry(f1,font=('ariel', 14,'bold'), textvariable=customerAdd ,
bd=6,insertwidth=6,justify='left')
        input.grid(row=2,column=3)

        display = Label(f1, font=( 'aria' ,14, 'bold' ),text="Sub total" )
        display.grid(row=5,column=3)
        input = Entry(f1,font=('ariel' ,14,'bold'), textvariable=Subtotal ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=5,column=4)

        display = Label(f1, font=( 'aria' ,14, 'bold' ),text="Service Charge" )
        display.grid(row=6,column=3)
        input = Entry(f1,font=('ariel' ,14,'bold'), textvariable=Service_Charge
, bd=6,insertwidth=4,justify='center')
        input.grid(row=6,column=4)

        display = Label(f1, font=( 'aria' ,14, 'bold' ),text="Tax" )
        display.grid(row=7,column=3)

```

```

        input = Entry(f1,font=('ariel' ,14,'bold'), textvariable=Tax ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=7,column=4)

        display = Label(f1, font=( 'aria' ,14, 'bold' ),text="Total" )
        display.grid(row=8,column=3)
        input = Entry(f1,font=('ariel' ,14,'bold'), textvariable=Total ,
bd=6,insertwidth=4,justify='center')
        input.grid(row=8,column=4)

#-----GUI
buttons-----

        space = Label(f1, font=( 'aria', 14, 'bold' ),text="" )
        space.grid(row=9,column=2)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="TOTAL",command=total)
        buttons.grid(row=10, column=2)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="MENU",command=menu)
        buttons.grid(row=10, column=0)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="DATABASE",command=print)
        buttons.grid(row=10, column=3)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="RESET",command=reset)
        buttons.grid(row=10, column=1)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="EXIT",command=qexit)
        buttons.grid(row=10, column=4)

        space = Label(f1, font=( 'aria', 14, 'bold' ),text="" )
        space.grid(row=11,column=2)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="Reciept",command=printReceipt)
        buttons.grid(row=12, column=2)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="RANDOMISE",command=Randomise)
        buttons.grid(row=12, column=1)

        buttons=Button(f1, bd=10 ,fg="black",font=('ariel'
,16,'bold'),width=10, text="C DATABASE",command=clearDatabase)
        buttons.grid(row=12, column=3)

nabeel = REM()
root.mainloop()

```



## 5. Output

When the Program is opened

The screenshot shows the initial state of the 'Restaurant Management System' application. The window title is 'Restaurant Management System'. The interface features a background image of various Indian dishes. At the top, there's a header with the title. Below it, the 'Customer Info' section includes fields for 'Name', 'Contact no.', and 'Address'. To the right, there's an 'Order No:' field. In the center, a list of menu items is displayed with corresponding input fields for quantities: 'Special Biryani 1/2 kg', 'White Korma 1/2 kg', 'Matka Karhai 1/2 kg', 'Tandoori Naan', and 'Extra Cold Drink'. To the right of the menu, there's a section for calculating the bill, including fields for 'Sub total', 'Service Charge', 'Tax', and 'Total'. At the bottom, there are several buttons: 'MENU', 'RESET', 'TOTAL', 'DATABASE', 'EXIT', 'RANDOMISE', 'Reciept', and 'C DATABASE'.

When the values are entered

The screenshot shows the same 'Restaurant Management System' application, but now with data entered into the fields. The 'Order No:' field contains '16015'. The 'Name' field contains 'Nabeel Rizwan', the 'Contact no.' field contains '03362319053', and the 'Address' field contains 'North Karachi'. The menu items have quantities entered: 'Special Biryani 1/2 kg' is 57, 'White Korma 1/2 kg' is 46, 'Matka Karhai 1/2 kg' is 31, 'Tandoori Naan' is 45, and 'Extra Cold Drink' is 62. The bill calculation section shows 'Sub total' as '0', 'Service Charge' as '0', 'Tax' as '0', and 'Total' as '0'. The buttons remain the same as in the previous screenshot.



When The Total button is pressed

**Restaurant Management System**

Order No: 36512

**Customer Info**

Name	Contact no.	Address
Nabeel Rizwan	03362319053	North Karachi

(Quantity)

Special Biryani 1/2 kg	57
White Korma 1/2 kg	46
Matka Karhai 1/2 kg	31
Tandoori Naan	45
Extra Cold Drink	62

Sub total	Rs. 51500.00
Service Charge	Rs. 520.20
Tax	Rs. 16995.00
<b>Total</b>	<b>Rs. 69015</b>

**MENU** **RESET** **TOTAL** **DATABASE** **EXIT**

**RANDOMISE** **Reciept** **C DATABASE**

When The Receipt button is pressed

**Restaurant Management System**

Order No: 16015

**Customer Info**

Name	Contact no.	Address
Nabeel Rizwan	03362319053	North Karachi

**Customer Receipt**

customerReciept.txt

Order no: 16015

Customer Name : Nabeel Rizwan  
Customer Contact no. : 03362319053  
Delivery Address : North Karachi

Order

Special Biryani 1/2 kg (120 x 57.0)	= Rs. 6840.0
White Korma 1/2 kg (550 x 46.0)	= Rs. 25300.0
Matka Karhai 1/2 kg (500 x 31.0)	= Rs. 15500.0
Tandoori Naan (10 x 45.0)	= Rs. 450.0
Extra Cold Drink (55 x 62.0)	= Rs. 3410.0
<b>Sub total</b>	<b>= Rs. 51500</b>
<b>Service Charges</b>	<b>= Rs. 520</b>
<b>Tax</b>	<b>= Rs. 16995</b>
<b>Total</b>	<b>= Rs. 69015</b>

**TOTAL** **DATABASE** **EXIT**

**RANDOMISE** **Reciept** **C DATABASE**



When The DATABASE button is pressed

**Restaurant Management System**

Order No: 16015

**Customer Info**

Name	Contact no.
Nabeel Rizwan	03362319053

(Quantity)

Special Biryani 1/2 kg	57
White Korma 1/2 kg	46
Matka Karhai 1/2 kg	31
Tandoori Naan	45
Extra Cold Drink	62

**Buttons:** MENU, RESET, TOTAL, RANDOMISE, Receipt, DATABASE

**Receipt**

Receipt.txt

Special Biryani 1/2 kg (120 x 2.0)	= Rs. 240.0
White Korma 1/2 kg (550 x 0.0)	= Rs. 0.0
Matka Karhai 1/2 kg (500 x 0.0)	= Rs. 0.0
Tandoori Naan (10 x 0.0)	= Rs. 0.0
Extra Cold Drink (55 x 0.0)	= Rs. 0.0
Sub total	= Rs. 240
Service Charges	= Rs. 2
Tax	= Rs. 79
Total	= Rs. 321

Order no: 16015

Customer Name : Nabeel Rizwan  
Customer Contact no. : 03362319053  
Delivery Address : North Karachi

Order

Special Biryani 1/2 kg (120 x 57.0)	= Rs. 6840.0
White Korma 1/2 kg (550 x 46.0)	= Rs. 25300.0
Matka Karhai 1/2 kg (500 x 31.0)	= Rs. 15500.0
Tandoori Naan (10 x 45.0)	= Rs. 450.0
Extra Cold Drink (55 x 62.0)	= Rs. 3410.0

When the MENU button is pressed

**Restaurant Management System**

Order No: 16015

**Customer Info**

Name	Contact no.	Address
Nabeel Rizwan	03362319053	North Karachi

(Quantity)

Special Biryani 1/2 kg	57
White Korma 1/2 kg	46
Matka Karhai 1/2 kg	31
Tandoori Naan	45
Extra Cold Drink	62

**Buttons:** MENU, RESET, TOTAL, RANDOMISE, Receipt, DATABASE, EXIT

**MENU**

ITEM	PRICE
Special Biryani 1/2 kg	120
White Korma 1/2 kg	550
Matka Karhai 1/2 kg	500
Tandoori Naan	10
Extra Cold Drink	55

**Sub total** Rs. 51500.00  
**Service Charge** Rs. 520.20  
**Tax** Rs. 16995.00  
**Total** Rs. 69015

**C DATABASE**