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B-TECH(CSE)



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Project Report

On

RESTAURANT MANAGEMENT WITH GST BILLING

SUBMITTED BY :

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ACKNOWLEDGMENT

We would like to express our gratitude towards all the people who have contributed their precious time and effort to help us while making this report . Without them it would not have been possible for us to understand the concept of representing and the ways of making the report file and complete the project.

We would like to thank our faculty, Department of Computer Science and Engineering for their guidance, support, motivation and encouragement through out the period this work was carried out.

Their readiness for consultation at all times, his educative comments, his concern and assistance even with practical things have been invaluable.

We are grateful to Head of School , Head of Faculty and all the faculty concerned toward this report of Python Programming (INT 213) for providing necessary guidance for making the same.

ABSTRACT

The project “**Restaurant Management With GST Billing**” is implemented to reduce the manual work and enhances the accuracy and precision of work in a restaurant.

The businesses in restaurants are increasing rapidly. At the same time, challenges in managing its operations tasks arises. The best way to optimize these activities is growing the business digitally. Today's generation encourages high-tech services especially over the Internet.

RESTAURANT MANAGEMENT WITH GST BILLING is online application for restaurant management. Hence the project is developed proficiently to help restaurant. This system wake to provide service facility to restaurant and owners automate their **BILLING OPERATIONS**.

This system reduce unnecessary calculations. As per the new rule Goods and Service Tax (GST) by Government of India levy on both AC and non-AC restaurants to 5%. Every restaurant charges 5% GST breakup as 2.5% State GST (SGST) and 2.5 % Central GST (CGST) without any other service tax and any other VAT charges..

We have developed a **RESTAURANT MANAGEMENT WITH GST BILLING** with inbuilt GST calculation in the bill, as well as it shows the amount in rupees how much GST is applied.

RESTAURANT MANAGEMENT WITH GST BILLING project fully developed in python language which is currently demanded in market using python programming.



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CHAPTER 1

INTRODUCTION TO PYTHON PROGRAMMING

✓ **PYTHON**

Python Language Introduction

Python is a widely used general-purpose, high level programming language. It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation. It was mainly developed for emphasis on code readability, and its syntax allows programmers to express concepts in fewer lines of code.

Python is a programming language that lets you work quickly and integrate systems more efficiently.

Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages.

- **Python is Interpreted** – Python is processed at runtime by the interpreter. You do not need to compile your program before executing it. This is similar to PERL and PHP.
- **Python is Interactive** – You can actually sit at a Python prompt and interact with the interpreter directly to write your programs.
- **Python is Object-Oriented** – Python supports Object-Oriented style or technique of programming that encapsulates code within objects.
- **Python is a Beginner's Language** – Python is a great language for the beginner-level programmers and supports the development of a wide range of applications from simple text processing to WWW browsers to games.

✓ **History of Python**

Python was developed by Guido van Rossum in the late eighties and early nineties at the National Research Institute for Mathematics and Computer Science in the Netherlands.

Python is derived from many other languages, including ABC, Modula-3, C, C++, Algol-68, SmallTalk, and Unix shell and other scripting languages.

Python is copyrighted. Like Perl, Python source code is now available under the GNU General Public License (GPL).

Python is now maintained by a core development team at the institute, although Guido van Rossum still holds a vital role in directing its progress.

Python Features

Python's features include –

- **Easy-to-learn** – Python has few keywords, simple structure, and a clearly defined syntax. This allows the student to pick up the language quickly.
- **Easy-to-read** – Python code is more clearly defined and visible to the eyes.
- **Easy-to-maintain** – Python's source code is fairly easy-to-maintain.
- **A broad standard library** – Python's bulk of the library is very portable and cross-platform compatible on UNIX, Windows, and Macintosh.
- **Interactive Mode** – Python has support for an interactive mode which allows interactive testing and debugging of snippets of code.

- **Portable** – Python can run on a wide variety of hardware platforms and has the same interface on all platforms.
- **Extendable** – You can add low-level modules to the Python interpreter. These modules enable programmers to add to or customize their tools to be more efficient.
- **Databases** – Python provides interfaces to all major commercial databases.
- **GUI Programming** – Python supports GUI applications that can be created and ported to many system calls, libraries and windows systems, such as Windows MFC, Macintosh, and the X Window system of Unix.
- **Scalable** – Python provides a better structure and support for large programs than shell scripting.

Apart from the above-mentioned features, Python has a big list of good features, few are listed below –

- It supports functional and structured programming methods as well as OOP.
- It can be used as a scripting language or can be compiled to byte-code for building large applications.
- It provides very high-level dynamic data types and supports dynamic type checking.
- IT supports automatic garbage collection.
- It can be easily integrated with C, C++, COM, ActiveX, CORBA, and Java.

Python graphical user interfaces (GUIs)

- **Tkinter** – Tkinter is the Python interface to the Tk GUI toolkit shipped with Python. We would look this option in this chapter.

- **wxPython** – This is an open-source Python interface for wxWindows <http://wxpython.org>.
- **JPython** – JPython is a Python port for Java which gives Python scripts seamless access to Java class libraries on the local machine <http://www.jython.org>.

There are many other interfaces available, which you can find them on the net.

Tkinter Widgets

Tkinter provides various controls, such as buttons, labels and text boxes used in a GUI application. These controls are commonly called widgets.

There are currently 15 types of widgets in Tkinter. We present these widgets as well as a brief description in the following table –

Sr.No.	Operator & Description
1	<p><u>Button</u></p> <p>The Button widget is used to display buttons in your application.</p>
2	<p><u>Canvas</u></p> <p>The Canvas widget is used to draw shapes, such as lines, ovals, polygons and rectangles, in your application.</p>
3	<p><u>Checkbutton</u></p> <p>The Checkbutton widget is used to display a number of options as checkboxes. The user can select multiple options at a time.</p>



4	<p><u>Entry</u></p> <p>The Entry widget is used to display a single-line text field for accepting values from a user.</p>
5	<p><u>Frame</u></p> <p>The Frame widget is used as a container widget to organize other widgets.</p>
6	<p><u>Label</u></p> <p>The Label widget is used to provide a single-line caption for other widgets. It can also contain images.</p>
7	<p><u>Listbox</u></p> <p>The Listbox widget is used to provide a list of options to a user.</p>
8	<p><u>Menubutton</u></p> <p>The Menubutton widget is used to display menus in your application.</p>
9	<p><u>Menu</u></p> <p>The Menu widget is used to provide various commands to a user. These commands are contained inside Menubutton.</p>
10	<p><u>Message</u></p> <p>The Message widget is used to display multiline text fields for accepting values from a user.</p>



11	<p><u>Radiobutton</u></p> <p>The Radiobutton widget is used to display a number of options as radio buttons. The user can select only one option at a time.</p>
12	<p><u>Scale</u></p> <p>The Scale widget is used to provide a slider widget.</p>
13	<p><u>Scrollbar</u></p> <p>The Scrollbar widget is used to add scrolling capability to various widgets, such as list boxes.</p>
14	<p><u>Text</u></p> <p>The Text widget is used to display text in multiple lines.</p>
15	<p><u>Toplevel</u></p> <p>The Toplevel widget is used to provide a separate window container.</p>
16	<p><u>Spinbox</u></p> <p>The Spinbox widget is a variant of the standard Tkinter Entry widget, which can be used to select from a fixed number of values.</p>
17	<p><u>PanedWindow</u></p> <p>A PanedWindow is a container widget that may contain any number of panes, arranged horizontally or vertically.</p>
18	<p><u>LabelFrame</u></p>



	A labelframe is a simple container widget. Its primary purpose is to act as a spacer or container for complex window layouts.
19	<u>tkMessageBox</u> This module is used to display message boxes in your applications.

Geometry Management

All Tkinter widgets have access to specific geometry management methods, which have the purpose of organizing widgets throughout the parent widget area. Tkinter exposes the following geometry manager classes: pack, grid, and place.

- The *pack()* Method – This geometry manager organizes widgets in blocks before placing them in the parent widget.
- The *grid()* Method – This geometry manager organizes widgets in a table-like structure in the parent widget.
- The *place()* Method – This geometry manager organizes widgets by placing them in a specific position in the parent widget.

CHAPTER-2

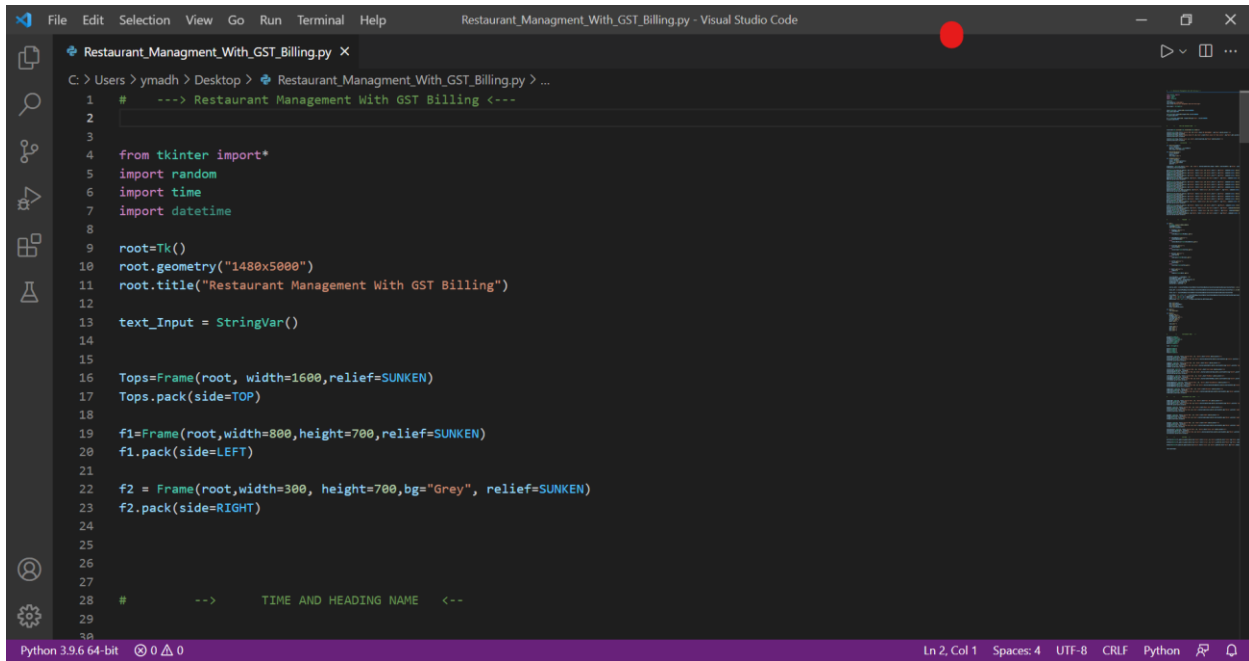
IMPLEMENTATION OF PROGRAM

Language : Python

Compiler : VS CODE

Technologies used : Python 3.6. , Python Tkinter GUI

CODE OF PROJECT



```
1  # ---> Restaurant Management With GST Billing <---
2
3
4  from tkinter import*
5  import random
6  import time
7  import datetime
8
9  root=Tk()
10 root.geometry("1480x5000")
11 root.title("Restaurant Management With GST Billing")
12
13 text_Input = StringVar()
14
15
16 Tops=Frame(root, width=1600,relief=SUNKEN)
17 Tops.pack(side=TOP)
18
19 f1=Frame(root,width=800,height=700,relief=SUNKEN)
20 f1.pack(side=LEFT)
21
22 f2 = Frame(root,width=300, height=700,bg="Grey", relief=SUNKEN)
23 f2.pack(side=RIGHT)
24
25
26
27
28 # ---> TIME AND HEADING NAME <--
29
30
```

```

File Edit Selection View Go Run Terminal Help Restaurant_Managment_With_GST_Billing.py - Visual Studio Code
Restaurant_Managment_With_GST_Billing.py X
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py ...

29
30
31 localtime=time.asctime(time.localtime(time.time()))
32
33 lblInfo=Label(Tops,font=('Courier New',50,'bold'),text="AM RESTAURANT ",fg="Navy",bd=10,anchor='w')
34 lblInfo.grid(row=0,column=0)
35 lblInfo=Label(Tops,font=('Bradley Hand ITC',20,'bold'),text="Best place for Food Lovers ",fg="Navy",bd=5,anchor='w')
36 lblInfo.grid(row=1,column=0)
37
38 lblInfo=Label(Tops,font=('arial',12,'bold'),text=localtime,fg="Black",bd=10,anchor='w')
39 lblInfo.grid(row=2,column=0)
40
41 # --> CALCULATOR <--
42
43 def btnclick(numbers):
44     global operator
45     operator =operator + str(numbers)
46     text_Input.set(operator)
47
48 def btnClearDisplay():
49     global operator
50     operator = ""
51     text_Input.set("")
52
53 def btnEqualsInput():
54     global operator
55     sumup= str(eval(operator))
56     text_Input.set(sumup)
57     operator = ""

Python 3.9.6 64-bit 0 0 0 Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

```

```

File Edit Selection View Go Run Terminal Help Restaurant_Managment_With_GST_Billing.py - Visual Studio Code
Restaurant_Managment_With_GST_Billing.py X
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py ...

56 text_input.set(sumup)
57 operator = ""
58
59 txtDisplay = Entry(f2,font=('arail', 20, 'bold'), textvariable=text_Input, bd=30, insertwidth=4, bg="Grey", justify='right')
60 txtDisplay.grid(columnspan=4)
61
62 btn7=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="7", bg="Grey", command=lambda: btnclick(7))
63 btn7.grid(row=2,column=0)
64 btn8=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="8", bg="Grey", command=lambda: btnclick(8))
65 btn8.grid(row=2,column=1)
66 btn9=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="9", bg="Grey", command=lambda: btnclick(9))
67 btn9.grid(row=2,column=2)
68 Addition=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="+", bg="Grey", command=lambda: btnclick("+"))
69 Addition.grid(row=2,column=3)
70
71 btn4=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="4", bg="Grey", command=lambda: btnclick(4))
72 btn4.grid(row=3,column=0)
73 btn5=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="5", bg="Grey", command=lambda: btnclick(5))
74 btn5.grid(row=3,column=1)
75 btn6=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="6", bg="Grey", command=lambda: btnclick(6))
76 btn6.grid(row=3,column=2)
77 Subtraction=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="-", bg="Grey", command=lambda: btnclick("-"))
78 Subtraction.grid(row=3,column=3)
79
80 btn1=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="1", bg="Grey", command=lambda: btnclick(1))
81 btn1.grid(row=4,column=0)
82 btn2=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="2", bg="Grey", command=lambda: btnclick(2))
83 btn2.grid(row=4,column=1)
84 btn3=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="3", bg="Grey", command=lambda: btnclick(3))
85 btn3.grid(row=4,column=2)

Python 3.9.6 64-bit 0 0 0 Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

```

```

File Edit Selection View Go Run Terminal Help Restaurant_Managment_With_GST_Billing.py - Visual Studio Code
Restaurant_Managment_With_GST_Billing.py X
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py > ...

88 btn0=Button(f2,padx=16,pady=16, fg="white", font=('arail',20,'bold'),text="0", bg="Black", command=lambda: btnclick(0))
89 btn0.grid(row=5,column=0)
90 btnClear=Button(f2,padx=16,pady=16, fg="white", font=('arail',20,'bold'),text="C", bg="Black", command=btnClearDisplay)
91 btnClear.grid(row=5,column=1)
92 btnEquals=Button(f2,padx=16,pady=16, fg="white", font=('arail',20,'bold'),text="=", bg="Black", command=btnEqualsInput)
93 btnEquals.grid(row=5,column=2)
94 Division=Button(f2,padx=16,pady=16, fg="white", font=('arail',20,'bold'),text="/", bg="Black", command=lambda: btnclick("/"))
95 Division.grid(row=5,column=3)
96
97
98
99
100 # --> PROGRAM <--
101
102
103 def Ref():
104     x=random.randint(10000,50000)
105     randomRef=str(x)
106     rand.set(randomRef)
107
108     if (PavBhaji.get()==""):
109         CoPavBhaji=0
110     else:
111         CoPavBhaji=float(PavBhaji.get())
112
113
114     if (CholeBathura.get()==""):
115         CoCholeBathura=0
116     else:
117         CoCholeBathura=float(CholeBathura.get())
118
119
120     if (IceCream.get()==""):
121         CoIceCream=0
122     else:
123         CoIceCream=float(IceCream.get())
124
125
126     if (Biryani.get()==""):
127         CoBiryani=0
128     else:
129         CoBiryani=float(Biryani.get())
130
131
132     if (Coffee.get()==""):
133         CoCoffee=0
134     else:
135         CoCoffee=float(Coffee.get())
136
137
138     if (Water.get()==""):
139         CoWater=0
140     else:
141         CoWater=float(Water.get())
142
143
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Restaurant_Managment_With_GST_Billing.py
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py > Ref
139 CoWater=0
140 else:
141     CoWater=float(Water.get())
142
143
144 CostofPavBhaji = CoPavBhaji * 10
145 CostofWater= CoWater * 5
146 CostofCholeBathura = CoCholeBathura* 10
147 CostofIceCream = CoIceCream * 5
148 CostBiryani = CoBiryani* 15
149 CostCoffee = CoCoffee * 5
150
151
152 Central_GST= (((CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee)* 2.5)/100)
153
154 State_GST =(((CoPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee)* 2.5)/100)
155
156 Total_cost = (CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee)
157
158 CostofMeal= "₹", str('%.2f' % (CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee))
159 C_gst = "₹", str('%.2f' % Central_GST)
160 S_gst = "₹", str('%.2f' % State_GST)
161 OverAllCost = "₹", str('%.2f' % (Total_cost+Central_GST+State_GST))
162
163
164 Sgst.set(S_gst)
165 Cost.set(CostofMeal)
166 Cgst.set(C_gst)
167 Total.set(OverAllCost)
168
Python 3.9.6 64-bit 0 0 Ln 146, Col 44 Spaces: 4 UTF-8 CRLF Python

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Restaurant_Managment_With_GST_Billing.py
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py > Ref
167 Total.set(OverAllCost)
168
169 def qExit():
170     root.destroy()
171
172 def Reset():
173     Coffee.set("")
174     PavBhaji.set("")
175     CholeBathura.set("")
176     IceCream.set("")
177     Biryani.set("")
178     Water.set("")
179
180     rand.set("")
181
182     Total.set("")
183     Sgst.set("")
184     Cgst.set("")
185     Cost.set("")
186
187
188 # --> RESTAURANT MENU <--
189
190 Coffee=StringVar()
191 PavBhaji=StringVar()
192 CholeBathura=StringVar()
193 IceCream=StringVar()
194 Biryani=StringVar()
195 Water=StringVar()
196
Python 3.9.6 64-bit 0 0 Ln 146, Col 44 Spaces: 4 UTF-8 CRLF Python

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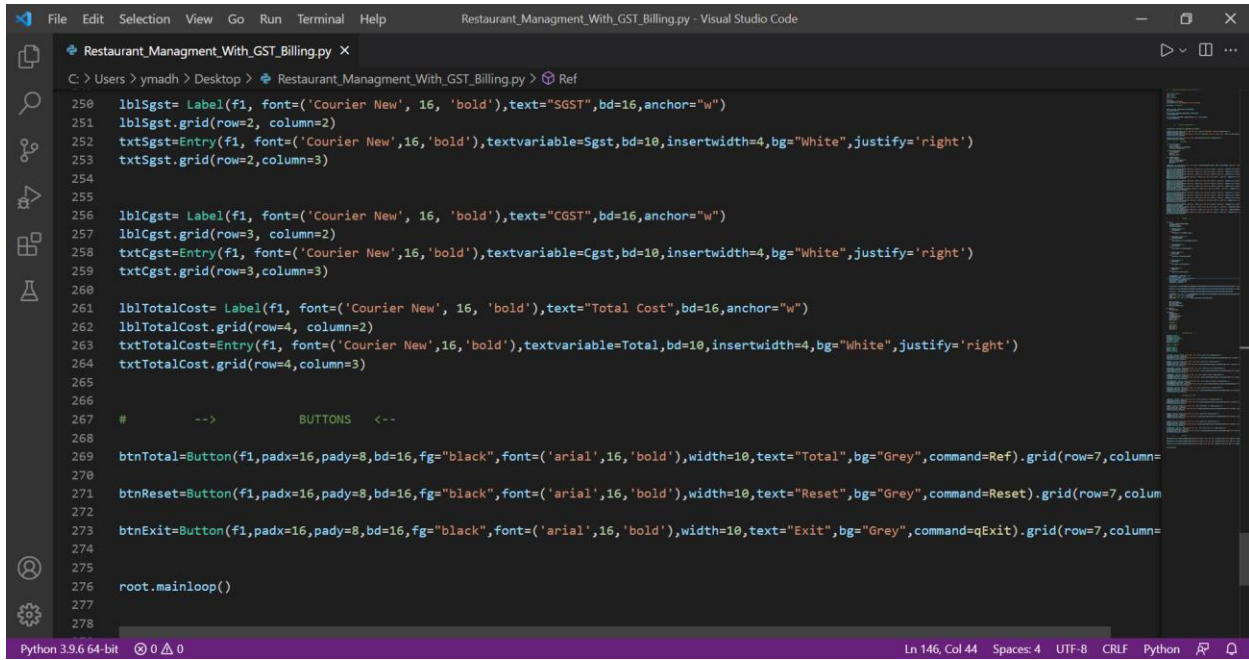
Restaurant_Managment_With_GST_Billing.py
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py > Ref
194 Biryani=StringVar()
195 Water=StringVar()
196
197 rand = StringVar()
198
199 Cost=StringVar()
200 Sgst=StringVar()
201 Cgst=StringVar()
202 Total=StringVar()
203
204
205 lblCoffee= Label(f1, font=('Courier New', 16, 'bold'),text="Coffee",bd=10,anchor="w")
206 lblCoffee.grid(row=0, column=0)
207 txtCoffee=Entry(f1, font=('Courier New',16,'bold'),textvariable=Coffee,bd=10,insertwidth=4,bg="white",justify='right')
208 txtCoffee.grid(row=0,column=1)
209
210 lblWater= Label(f1, font=('Courier New', 16, 'bold'),text="Water",bd=10,anchor="w")
211 lblWater.grid(row=1, column=0)
212 txtWater=Entry(f1, font=('Courier New',16,'bold'),textvariable=Water,bd=10,insertwidth=4,bg="white",justify='right')
213 txtWater.grid(row=1,column=1)
214
215 lblIceCream= Label(f1, font=('Courier New', 16, 'bold'),text="Ice-Cream",bd=10,anchor="w")
216 lblIceCream.grid(row=2, column=0)
217 lblIceCream=Entry(f1, font=('Courier New',16,'bold'),textvariable=IceCream,bd=10,insertwidth=4,bg="white",justify='right')
218 lblIceCream.grid(row=2,column=1)
219
220 lblPavBhaji= Label(f1, font=('Courier New', 16, 'bold'),text="PavBhaji",bd=10,anchor="w")
221 lblPavBhaji.grid(row=3, column=0)
222 txtPavBhaji=Entry(f1, font=('Courier New',16,'bold'),textvariable=PavBhaji,bd=10,insertwidth=4,bg="white",justify='right')
223 txtPavBhaji.grid(row=3,column=1)
Python 3.9.6 64-bit 0 0 Ln 146, Col 44 Spaces: 4 UTF-8 CRLF Python

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Restaurant_Managment_With_GST_Billing.py
C:\Users\ymadh\Desktop> Restaurant_Managment_With_GST_Billing.py > Ref
222 txtPavBhaji=Entry(f1, font=('Courier New',16,'bold'),textvariable=PavBhaji,bd=10,insertwidth=4,bg="white",justify='right')
223 txtPavBhaji.grid(row=3,column=1)
224
225 lblCholeBathura= Label(f1, font=('Courier New', 16, 'bold'),text="CholeBathura",bd=10,anchor="w")
226 lblCholeBathura.grid(row=4, column=0)
227 txtCholeBathura=Entry(f1, font=('Courier New',16,'bold'),textvariable=CholeBathura,bd=10,insertwidth=4,bg="white",justify='right')
228 txtCholeBathura.grid(row=4,column=1)
229
230 lblBiryani= Label(f1, font=('Courier New', 16, 'bold'),text="Biryani",bd=10,anchor="w")
231 lblBiryani.grid(row=5, column=0)
232 txtBiryani=Entry(f1, font=('Courier New',16,'bold'),textvariable=Biryani,bd=10,insertwidth=4,bg="white",justify='right')
233 txtBiryani.grid(row=5,column=1)
234
235
236 # --> RESTAURANT BILL INFO <--
237
238
239 lblBillNo= Label(f1, font=('Courier New', 16, 'bold'),text="Bill No",bd=16,anchor="w")
240 lblBillNo.grid(row=0, column=2)
241 txtBillNo=Entry(f1, font=('Courier New',16,'bold'),textvariable=rand,bd=10,insertwidth=4,bg="white",justify='right')
242 txtBillNo.grid(row=0,column=3)
243
244 lblCost= Label(f1, font=('Courier New', 16, 'bold'),text="Meal Cost",bd=16,anchor="w")
245 lblCost.grid(row=1, column=2)
246 txtCost=Entry(f1, font=('Courier New',16,'bold'),textvariable=Cost,bd=10,insertwidth=4,bg="white",justify='right')
247 txtCost.grid(row=1,column=3)
248
249
250 lblSgst= Label(f1, font=('Courier New', 16, 'bold'),text="SGST",bd=16,anchor="w")
251 lblSgst.grid(row=2, column=2)
Python 3.9.6 64-bit 0 0 Ln 146, Col 44 Spaces: 4 UTF-8 CRLF Python

```

```

250 lblSgst= Label(f1, font=('Courier New', 16, 'bold'),text="SGST",bd=16,anchor="w")
251 lblSgst.grid(row=2, column=2)
252 txtSgst=Entry(f1, font=('Courier New',16,'bold'),textvariable=Sgst,bd=10,insertwidth=4,bg="White",justify='right')
253 txtSgst.grid(row=2,column=3)
254
255
256 lblCgst= Label(f1, font=('Courier New', 16, 'bold'),text="CGST",bd=16,anchor="w")
257 lblCgst.grid(row=3, column=2)
258 txtCgst=Entry(f1, font=('Courier New',16,'bold'),textvariable=Cgst,bd=10,insertwidth=4,bg="White",justify='right')
259 txtCgst.grid(row=3,column=3)
260
261 lblTotalCost= Label(f1, font=('Courier New', 16, 'bold'),text="Total Cost",bd=16,anchor="w")
262 lblTotalCost.grid(row=4, column=2)
263 txtTotalCost=Entry(f1, font=('Courier New',16,'bold'),textvariable=Total,bd=10,insertwidth=4,bg="White",justify='right')
264 txtTotalCost.grid(row=4,column=3)
265
266
267 # --->          BUTTONS   <--
268
269 btnTotal=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),width=10,text="Total",bg="Grey",command=Ref).grid(row=7,column=
270
271 btnReset=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),width=10,text="Reset",bg="Grey",command=Reset).grid(row=7,column=
272
273 btnExit=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),width=10,text="Exit",bg="Grey",command=qExit).grid(row=7,column=
274
275
276 root.mainloop()
277
278

```

IN TEXT FORM:

---> Restaurant Management With GST Billing <---

from tkinter import*

import random

import time

import datetime

root=Tk()

root.geometry("1480x5000")

root.title("Restaurant Management With GST Billing")

text_Input = StringVar()



```
Tops=Frame(root, width=1600,relief=SUNKEN)
```

```
Tops.pack(side=TOP)
```

```
f1=Frame(root,width=800,height=700,relief=SUNKEN)
```

```
f1.pack(side=LEFT)
```

```
f2 = Frame(root,width=300, height=700,bg="Grey", relief=SUNKEN)
```

```
f2.pack(side=RIGHT)
```

```
#      -->    TIME AND HEADING NAME    <--
```

```
localtime=time.asctime(time.localtime(time.time()))
```

```
lblInfo=Label(Tops,font=('Courier New',50,'bold'),text="AM RESTAURANT",fg="Navy",bd=10,anchor='w')
```

```
lblInfo.grid(row=0,column=0)
```

```
lblInfo=Label(Tops,font=('Bradley Hand ITC',20,'bold'),text="Best place for Food Lovers ",fg="Navy",bd=5,anchor='w')
```

```
lblInfo.grid(row=1,column=0)
```

```
lblInfo=Label(Tops,font=('arial',12,'bold'),text=localtime,fg="Black",bd=10,anchor='w')
```

```
lblInfo.grid(row=2,column=0)
```

```
#      -->    CALCULATOR    <--
```

```
def btnclick(numbers):
```

```
    global operator
```



```
operator =operator + str(numbers)

text_Input.set(operator)

def btnClearDisplay():

    global operator

    operator = ""

    text_Input.set("")

def btnEqualsInput():

    global operator

    sumup= str(eval(operator))

    text_Input.set(sumup)

    operator = ""

txtDisplay = Entry(f2,font=('arail', 20, 'bold'), textvariable=text_Input, bd=30,
insertwidth=4, bg="Grey", justify='right')

txtDisplay.grid(columnspan=4)

btn7=Button(f2,padx=16,pady=16, fg="black",
font=('arail',20,'bold'),text="7", bg="Grey", command=lambda: btnclick(7))

btn7.grid(row=2,column=0)

btn8=Button(f2,padx=16,pady=16, fg="black",
font=('arail',20,'bold'),text="8", bg="Grey", command=lambda: btnclick(8))

btn8.grid(row=2,column=1)

btn9=Button(f2,padx=16,pady=16, fg="black",
font=('arail',20,'bold'),text="9", bg="Grey", command=lambda: btnclick(9))

btn9.grid(row=2,column=2)
```



```
Addition=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="+", bg="Grey", command=lambda: btnclick("+"))
```

```
Addition.grid(row=2,column=3)
```

```
btn4=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="4", bg="Grey", command=lambda: btnclick(4))
```

```
btn4.grid(row=3,column=0)
```

```
btn5=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="5", bg="Grey", command=lambda: btnclick(5))
```

```
btn5.grid(row=3,column=1)
```

```
btn6=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="6", bg="Grey", command=lambda: btnclick(6))
```

```
btn6.grid(row=3,column=2)
```

```
Subtraction=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="-", bg="Grey", command=lambda: btnclick("-"))
```

```
Subtraction.grid(row=3,column=3)
```

```
btn1=Button(f2,padx=16,pady=16, fg="black", font=('arail',20,'bold'),text="1",  
bg="Grey", command=lambda: btnclick(1))
```

```
btn1.grid(row=4,column=0)
```

```
btn2=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="2", bg="Grey", command=lambda: btnclick(2))
```

```
btn2.grid(row=4,column=1)
```

```
btn3=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="3", bg="Grey", command=lambda: btnclick(3))
```

```
btn3.grid(row=4,column=2)
```

```
Multiply=Button(f2,padx=16,pady=16, fg="black",  
font=('arail',20,'bold'),text="*", bg="Grey", command=lambda: btnclick("*"))
```



```
Multiply.grid(row=4,column=3)
```

```
btn0=Button(f2,padx=16,pady=16, fg="white",  
font=('arail',20,'bold'),text="0", bg="Black", command=lambda: btnclick(0))
```

```
btn0.grid(row=5,column=0)
```

```
btnClear=Button(f2,padx=16,pady=16, fg="white",  
font=('arail',20,'bold'),text="C", bg="Black", command=btnClearDisplay)
```

```
btnClear.grid(row=5,column=1)
```

```
btnEquals=Button(f2,padx=16,pady=16, fg="white",  
font=('arail',20,'bold'),text="=", bg="Black", command=btnEqualsInput)
```

```
btnEquals.grid(row=5,column=2)
```

```
Division=Button(f2,padx=16,pady=16, fg="white",  
font=('arail',20,'bold'),text="/", bg="Black", command=lambda: btnclick("/"))
```

```
Division.grid(row=5,column=3)
```

```
#          -->  PROGRAM  <--
```

```
def Ref():
```

```
    x=random.randint(10908,500876)
```

```
    randomRef=str(x)
```

```
    rand.set(randomRef)
```

```
if (PavBhaji.get()==""):
```

```
    CoPavBhaji=0
```

```
else:
```

```
    CoPavBhaji=float(PavBhaji.get())
```

```
if (CholeBathura.get()==""):
```



CoCholeBathura=0

else:

CoCholeBathura=float(CholeBathura.get())

if (IceCream.get()==""):

CoIceCream=0

else:

CoIceCream=float(IceCream.get())

if (Biryani.get()==""):

CoBirryani=0

else:

CoBirryani=float(Birryani.get())

if (Coffee.get()==""):

CoCoffee=0

else:

CoCoffee=float(Coffee.get())

if (Water.get()==""):

CoWater=0

else:

CoWater=float(Water.get())

CostofPavBhaji = CoPavBhaji * 10

CostofWater= CoWater * 5



CostofCholeBathura = CoCholeBathura* 10

CostofIceCream = CoIceCream * 5

CostBiryani = CoBiryani* 15

CostCoffee = CoCoffee * 5

Central_GST=

((((CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee)* 2.5)/100)

State_GST

=((((CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee)* 2.5)/100)

Total_cost =

(CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee)

CostofMeal= "₹", str('%0.2f' %

(CostofPavBhaji+CostofWater+CostofCholeBathura+CostofIceCream+CostBiryani+CostCoffee))

C_gst = "₹", str ('%0.2f' % Central_GST)

S_gst = "₹", str ('%0.2f' % State_GST)

OverAllCost ="₹", str ('%0.2f' % (Total_cost+Central_GST+State_GST))

Sgst.set(S_gst)



Cost.set(CostofMeal)

Cgst.set(C_gst)

Total.set(OverAllCost)

def qExit():

root.destroy()

def Reset():

Coffee.set("")

PavBhaji.set("")

CholeBathura.set("")

IceCream.set("")

Biryani.set("")

Water.set("")

rand.set("")

Total.set("")

Sgst.set("")

Cgst.set("")

Cost.set("")

--> RESTAURANT MENU <--

Coffee=StringVar()

PavBhaji=StringVar()

CholeBathura=StringVar()

IceCream=StringVar()

Biryani=StringVar()

Water=StringVar()

rand = StringVar()

Cost=StringVar()

Sgst=StringVar()

Cgst=StringVar()

Total=StringVar()

**lblCoffee= Label(f1, font=('Courier New', 16,
'bold'),text="Coffee",bd=10,anchor="w")**

lblCoffee.grid(row=0, column=0)

**txtCoffee=Entry(f1, font=('Courier
New',16,'bold'),textvariable=Coffee,bd=10,insertwidth=4,bg="white",justify='
right')**

txtCoffee.grid(row=0,column=1)

**lblWater= Label(f1, font=('Courier New', 16,
'bold'),text="Water",bd=10,anchor="w")**



```
lblWater.grid(row=1, column=0)
```

```
txtWater=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=Water,bd=10,insertwidth=4,bg="white",justify='r  
ight')
```

```
txtWater.grid(row=1,column=1)
```

```
lblIceCream= Label(f1, font=('Courier New', 16, 'bold'),text="Ice-  
Cream",bd=10,anchor="w")
```

```
lblIceCream.grid(row=2, column=0)
```

```
lblIceCream=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=IceCream,bd=10,insertwidth=4,bg="white",justif  
y='right')
```

```
lblIceCream.grid(row=2,column=1)
```

```
lblPavBhaji= Label(f1, font=('Courier New', 16,  
'bold'),text="PavBhaji",bd=10,anchor="w")
```

```
lblPavBhaji.grid(row=3, column=0)
```

```
txtPavBhaji=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=PavBhaji,bd=10,insertwidth=4,bg="white",justify  
='right')
```

```
txtPavBhaji.grid(row=3,column=1)
```

```
lblCholeBathura= Label(f1, font=('Courier New', 16,  
'bold'),text="CholeBathura",bd=10,anchor="w")
```

```
lblCholeBathura.grid(row=4, column=0)
```

```
txtCholeBathura=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=CholeBathura,bd=10,insertwidth=4,bg="white",ju  
stify='right')
```



```
txtCholeBathura.grid(row=4,column=1)
```

```
lblBiryani= Label(f1, font=('Courier New', 16,  
'bold'),text="Biryani",bd=10,anchor="w")
```

```
lblBiryani.grid(row=5, column=0)
```

```
txtBiryani=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=Biryani,bd=10,insertwidth=4,bg="white",justify=  
'right')
```

```
txtBiryani.grid(row=5,column=1)
```

```
#      -->      RESTAURANT BILL INFO      <--
```

```
lblBillNo= Label(f1, font=('Courier New', 16, 'bold'),text="Bill  
No",bd=16,anchor="w")
```

```
lblBillNo.grid(row=0, column=2)
```

```
txtBillNo=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=rand,bd=10,insertwidth=4,bg="White",justify='ri  
ght')
```

```
txtBillNo.grid(row=0,column=3)
```

```
lblCost= Label(f1, font=('Courier New', 16, 'bold'),text="Meal  
Cost",bd=16,anchor="w")
```

```
lblCost.grid(row=1, column=2)
```

```
txtCost=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=Cost,bd=10,insertwidth=4,bg="White",justify='ri  
ght')
```



```
txtCost.grid(row=1,column=3)
```

```
lblSgst= Label(f1, font=('Courier New', 16,  
'bold'),text="SGST",bd=16,anchor="w")
```

```
lblSgst.grid(row=2, column=2)
```

```
txtSgst=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=Sgst,bd=10,insertwidth=4,bg="White",justify='ri  
ght')
```

```
txtSgst.grid(row=2,column=3)
```

```
lblCgst= Label(f1, font=('Courier New', 16,  
'bold'),text="CGST",bd=16,anchor="w")
```

```
lblCgst.grid(row=3, column=2)
```

```
txtCgst=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=Cgst,bd=10,insertwidth=4,bg="White",justify='ri  
ght')
```

```
txtCgst.grid(row=3,column=3)
```

```
lblTotalCost= Label(f1, font=('Courier New', 16, 'bold'),text="Total  
Cost",bd=16,anchor="w")
```

```
lblTotalCost.grid(row=4, column=2)
```

```
txtTotalCost=Entry(f1, font=('Courier  
New',16,'bold'),textvariable=Total,bd=10,insertwidth=4,bg="White",justify='r  
ight')
```

```
txtTotalCost.grid(row=4,column=3)
```



--> **BUTTONS** <--

```
btnTotal=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),  
width=10,text="Total",bg="Grey",command=Ref).grid(row=7,column=1)
```

```
btnReset=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),  
width=10,text="Reset",bg="Grey",command=Reset).grid(row=7,column=2)
```

```
btnExit=Button(f1,padx=16,pady=8,bd=16,fg="black",font=('arial',16,'bold'),w  
idth=10,text="Exit",bg="Grey",command=qExit).grid(row=7,column=3)
```

```
root.mainloop()
```

CHAPTER-3

APPLICATION INTERFACE

INTERFACE:



Restaurant Management With GST Billing

AM RESTAURANT

Best place for Food Lovers

Sat Nov 20 18:39:08 2021

Coffee	<input type="text"/>	Bill No	<input type="text"/>
Water	<input type="text"/>	Meal Cost	<input type="text"/>
Ice-Cream	<input type="text"/>	SGST	<input type="text"/>
PavBhaji	<input type="text"/>	CGST	<input type="text"/>
CholeBathura	<input type="text"/>	Total Cost	<input type="text"/>
Biryani	<input type="text"/>		

Total

Reset

Exit

789+

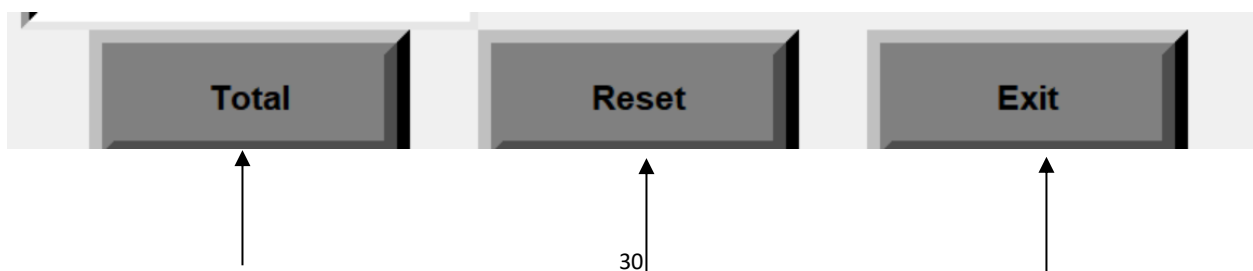
456-

123*

0C= /

SOME FEATURES:

1) BUTTONS :





Total button gives the calculation of

Bill

Reset button resets all
the values

Exit button closes
the window

2) MENU ITEM AND BILL GENERATION :

Coffee	<input type="text"/>	Bill No	<input type="text"/>
Water	<input type="text"/>	Meal Cost	<input type="text"/>
Ice-Cream	<input type="text"/>	SGST	<input type="text"/>
PavBhaji	<input type="text"/>	CGST	<input type="text"/>
CholeBathura	<input type="text"/>	Total Cost	<input type="text"/>
Biryani	<input type="text"/>		

Let's insert some value and check the application :



Restaurant Management With GST Billing

AM RESTAURANT

Best place for Food Lovers

Sat Nov 20 18:53:54 2021

Coffee	10	Bill No	87207
Water	20	Meal Cost	₹ 3100.00
Ice-Cream	50	SGST	₹ 77.50
PavBhaji	40	CGST	₹ 77.50
CholeBathura	50	Total Cost	₹ 3255.00
Biryani	120		

Total Reset Exit

Calculator: 7 8 9 +, 4 5 6 -, 1 2 3 *, 0 C = /

3) Calculator



CHAPTER-4

CONCLUSION

The coding of Restaurant Managment Syste was challenging with many errors arising. Many systems had to be written numerous ways before a final working solution was found.

This project has really been faithful and informative. It has made us learn and understand the many trivial concepts of Python Language. As we have used python Tkinter as a GUI it provides various controls, such as buttons, labels and text boxes to build a user friendly application.

The fast growing use of internet confirms the good future and scope of the proposed project.

Finally it has taught us a valuable lifelong lesson about the improvements and working and interacting in a group.



REFERENCES

Link

www.python.org

[https://en.wikipedia.org/wiki/Python_\(programming_language\)](https://en.wikipedia.org/wiki/Python_(programming_language))

<https://www.geeksforgeeks.org/python-gui-tkinter/#:~:text=Out%20of%20all%20the%20GUI,tkinter%20is%20an%20easy%20task.>

<https://www.geeksforgeeks.org/python-programming-language/>

https://www.tutorialspoint.com/python/python_gui_programming.htm