Computer Science Project Report

COMPUTER SALES AND SERVICING MANAGEMENT SYSTEM

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XII A

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Roll Number: 8

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Certificate

This is to certify that DEVASHISH DHAULAKHANDI of class 12 A has completed this project titled "COMPUTER SALES AND SERVICING MANAGEMENT SYSTEM" under my guidance & this project may be considered as the part of the practical exam of AISSCE conducted by CBSE.

Ms. Annu Saini Computer Science

Acknowledgement

I would like to express a deep sense of thanks and gratitude to my project guide Ms. Annu Saini, for guiding me immensely through the course of the project She always evinced keen interest in my work. Her constructive advice & constant motivation have been responsible for the successful completion of this project.

I also thank my parents for their motivation and support. I must thanks my classmates for their timely help & support for compilation of this project.

Last but not the least, I would like to thank all those who helped directly or indirectly towards the completion of this project.

Introduction and Feasibility

This Python project is a unique software that can be used in a Computer system sales store to keep a record of bills and services.

It is a full fledged software with graphics and interactive functions that can be used by anyone with ease.

It is feasible and cost effective.

No online access required and it is a standalone software. Only python and a few libraries are required to start.

The bill and services entries are stored as text files in a secure directory that can be set according to the user during installation of this system. An inbuilt calculator is also provided for the manager to calculate the final bill.

The bills are stored with time and dates of creation and changes. It is handy with a show all bills feature.

It is a useful, helpful project which was fun to make.

A brief history of Python

Introduction

Python is a high-level programming language that focuses on code readability.

Clear programming is enabled by the constructs provided in the language on both large and small scale.

Python has gained a lot of popularity.

Early History

Guido van Rossum worked for a project "ABC Language" in Dutch CWI research institute. Guido van Rossum created a successor of ABC Language that was capable of exception handling and compatible with Amoeba operating system interface. This language was named as Python.

Python 3

On December 3, 2008, Python 3.0 was released which was also known as Python 3000 and Py3K.

The main idea behind the design of Python 3.0 was to remove the fundamental design flaws of the language.

Backward compatibility could not be retained in order to make the changes and therefore, it needed an important version update.

A lot of efforts were put to remove duplicate constructs and modules to make sure that there is only a single way of doing things in Python 3.

File Handling

Python supports file handling and allows users to handle files i.e., to read and write files, along with many other file handling options, to operate on files.

Python treats file differently as text or binary.

Each line of code includes a sequence of characters and they form text file.

Each line of a file is terminated with a special character, called the EOL or End of Line characters like comma {,} or newline character.

It ends the current line and tells the interpreter a new one has begun.

Problem Definition:

The project is developed for all users, which aims to automate it's various tasks.

All the work of the tasks was earlier carried out manually.

Automation provides a quick and easy step by step approach and Handle the tasks like Billing, Modifying bills, Updating, Keeping records, etc.

Thus, automation is no longer an option, but a necessity.

Writing and logging all the financial transactions of a Computer Sales store is tedious and is prone to errors and mistakes. It is feasible and better to use digital systems for such tasks.

Advantages of the project

The project aims to develop a Management system that is clean, user-friendly

and multifunctional. The development of this application includes a number of fields such that the user feels comfortable and system appears dynamic.

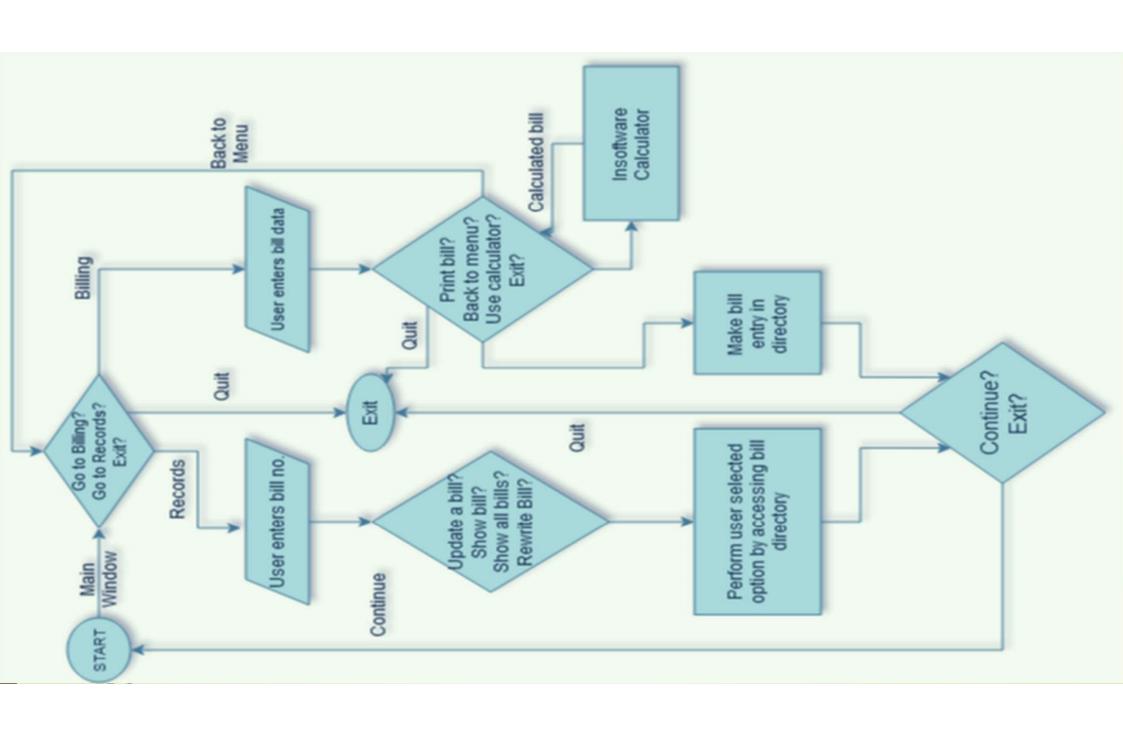
Through the new Sales Management system, all the work has been automated and replacing the process manual workload.

Through this new system, the manager can log all the financial transactions and

Billing. Further any bill entry can be Manually updated/modified. A calculator is also an additional feature for the user to calculate the bill.

This Program consists of the following options:

- 1. To Write /Add a new text file
- 2. To show one or all files
- 3. To search and edit files
- 4. To delete files
- 5. To exit
- 6. An inbuilt calculator



Libraries/Modules used in the program

- 1.Tkinter ~ Tkinter is the standard GUI (Graphical User Interface) library for python.
 It is a fast and easy way to create GUI applications.
 Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.
- 2.Datetime ~ The datetime module supplies classes for manipulating dates and times.
- 3.Playsound ~ The playsound module contains only one thing, the function playsound.
- 4.PIL/pillow ~ Pillow is a Python Imaging Library (PIL), which adds support for opening, manipulating, and saving images.
- 5.Os ~The os module in python provides functions for interacting with the operating system. Os comes under Python's standard utility modules.

Working description / Output

The interface is tkinter based windows with buttons and entry widgets.

The software uses the os library to access, open, delete, remove files from the system.

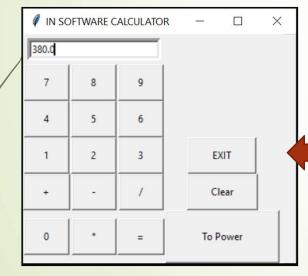
The main window:

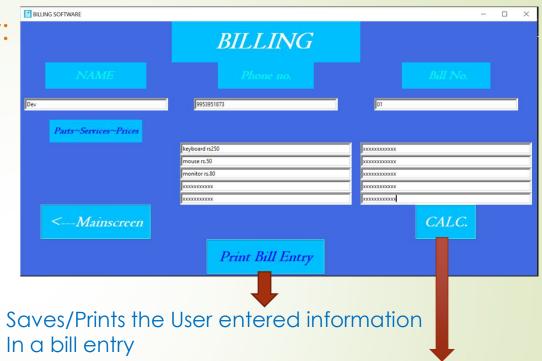
The window consists of different buttons and other windows have entry fields to input information to save:



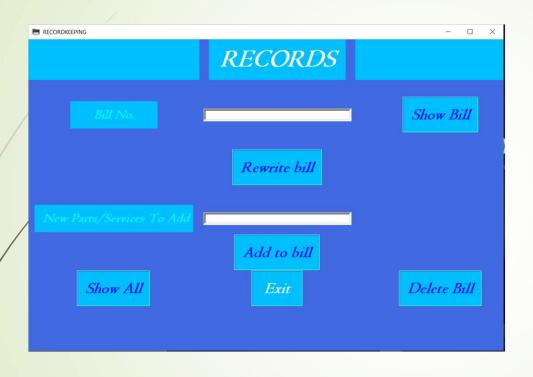
The Billing Window:

Inbuilt calculator:





The Records window:



This window has various Buttons and Entry fields.

The user enters the bill no. and then decides which operation to carry out.

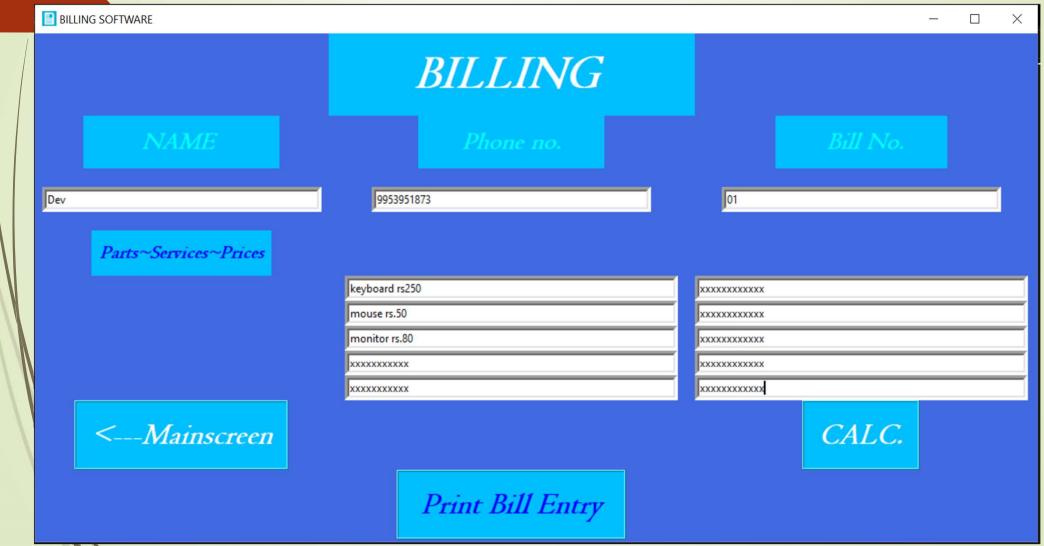
The user clicks the buttons they choose, this window is also used to add new data to the selected bill.

It can also be completely rewritten and edited.

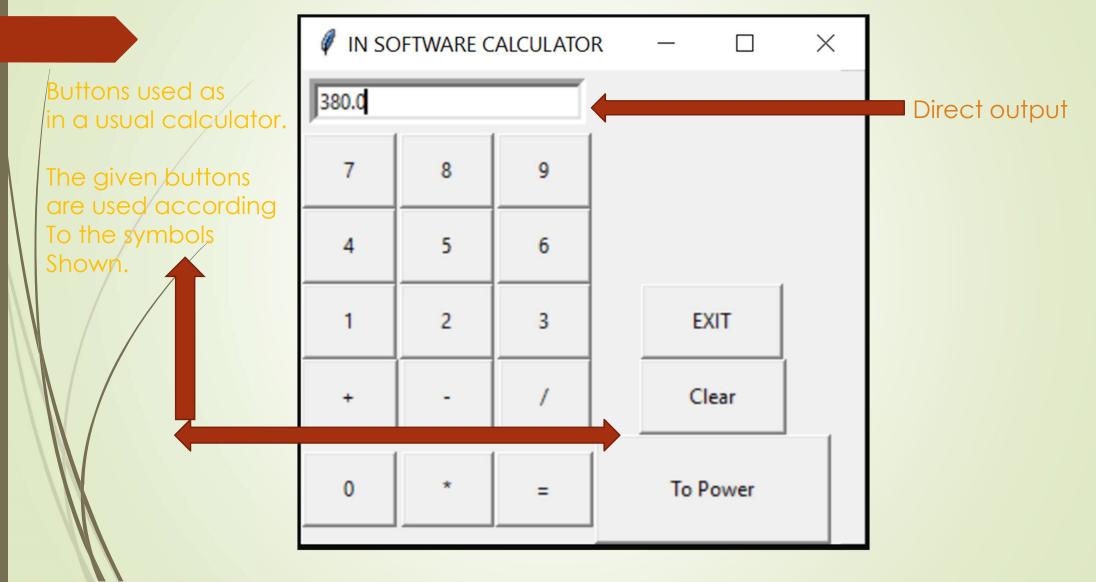
Main Window Has Two Button Options: Billing ~ Records



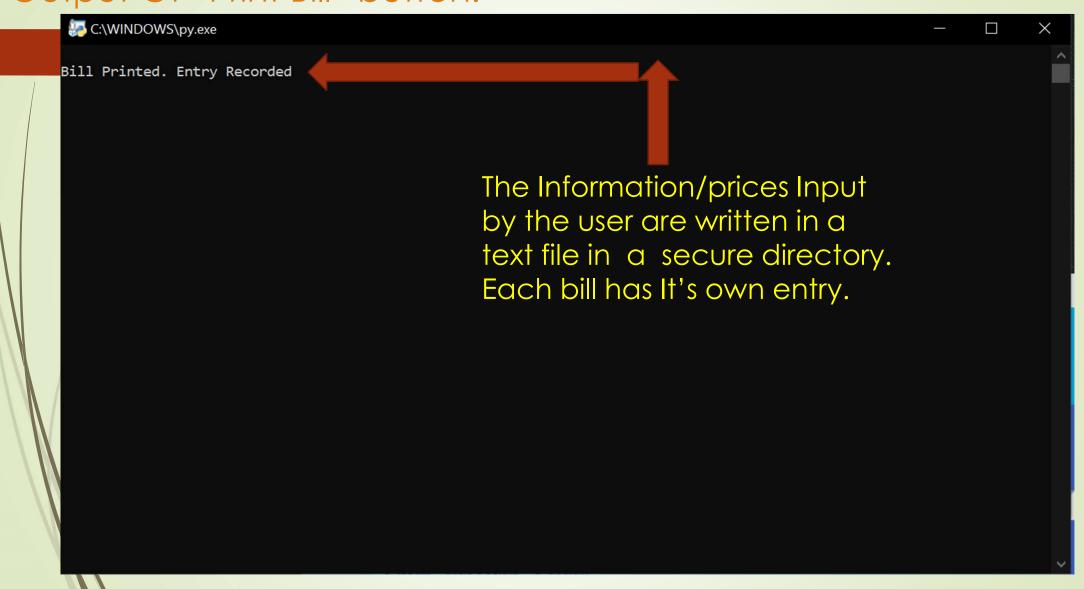
Along with Entry fields, Billing Window Has Options: Main window Print/Save Bill Calculator Exit



In Software Calculator:



Output Of "Print Bill" button:



Records Window has options:

An Entry field for the Bill no. of the chosen Bill. Rewrite bill: it allows user to rewrite any and all details of the bill entry.

Show bill: prints the bill entry whose bill no. is entered.

Add to bill: It adds the entered information to the bill entry.

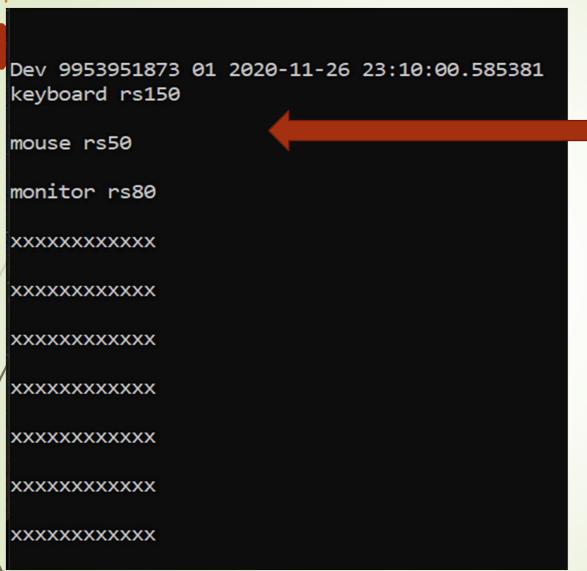
Delete bill: It deletes the bill entry.

Show all: It prints all the bills in the directory.

Records Window:



Output of Show bill:



The Bill Is Saved with time and date of creation.

The Entries made in the Billing window are saved In the entry as shown~

Output of add to bill:

keyboard rs150 mouse rs50 monitor rs80 The Add to bill option XXXXXXXXXXX Updates the bill with the XXXXXXXXXXX New Information entered: XXXXXXXXXXX XXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXX

latest entry: THIS NEW PRODUCT/SERVICE IS NOW ADDED TO BILL 01 2020-11-26 23:12:59.541520 *

This application is small, portable and user friendly. Minimum Requirements:

System And Hardware:

4gb or greater RAM

Microprocessor: INTEL i3 or Higher

Hard disk/SD storage: 256gb or greater

Printer

Speakers/audio system

Files Generated: ~Text files

Software Specification:

Platform: Windows7/8/10 OS

Front end: Python 3.9

Any text editor

Various python Modules and Libraries

Source code:

#Inbuilt modules used and Other modules installed using python's pip installer

```
from tkinter import *
                         #tkinter module helps make separate windows
import datetime
                         #datetime module gets local time and day
from playsound import playsound #playsound module plays mp3 files
from PIL import ImageTk,Image #PII or pillow library imports .jpg and .png files in tkinter for logo
                      #os module used to manage and write files in record directory
import os
#main/original window which has logo, Billing and Record window buttons
def mainwin():
       #initialising the main window
       rootwin = Tk()
       rootwin.title("Computer Sales and Repairs Database")
       rootwin.geometry("1000x800")
       rootwin.iconbitmap(r'C:\Users\DTG\Desktop\Cs class 12th Project\Icons\2towers.ico')
       rootwin.configure(bg = 'royalblue')
       playsound (r"C:\Users\DTG\Desktop\Cs class 12th Project\Sounds\powup3.mp3")
       #welcome window format and customization
       spacermain1 = Label(rootwin,text = "",
                        bg = "deep sky blue",
                        borderwidth = 5,padx = 120,pady=30).grid(row=0,column=1)
```

```
spacermain2 = Label(rootwin,text = "",
                  bg = "deep sky blue",
                  borderwidth = 5,padx = 120,pady=30).grid(row=0,column=3)
 main head1 = Label(rootwin,
                  text=" COMPUTER SALES ".
                  fg = "white",
                  bg = "deep sky blue",
                  font = "Centaur 40 bold italic", borderwidth = 8, pady = 5).grid(row = 0, column = 2)
 main_head2 = Label(rootwin,
                  text=" AND "
                  fa = "white",
                  bg = "deep sky blue",
                  font = "Centaur 40 bold italic", borderwidth = 8, pady = 5), grid (row = 1, column = 2)
 main_head3 = Label(rootwin,
                  text="SERVICING",
                  fg = "white",
                  bg = "deep sky blue",
                  font = "Centaur 40 bold italic", borderwidth = 8, pady = 5).grid(row = 2, column = 2)
main_head4 = Label(rootwin,
                  text=" WELCOME ".
                  fg = "yellow",
                  bg = "deep sky blue",
         font = "Centaur 40 bold italic", borderwidth = 10, padx = 6, pady = 5).grid(row = 3, column = 2)
```

```
#function defined to close the main window and exit the program
        def closing 1 ():
                 rootwin.destroy()
                 quit()
#setting up buttons on main window fonts, size, type etc.
        button_to_billing = Button(text = "BILLING",padx=6,pady=5,relief = RIDGE,fg = "blue",font = "Centaur
25 bold italic".
                         bg = "deep sky blue",command = bill).grid(row = 4,column = 1,)
        button_to_records = Button(text = "RECORDS",padx=6,pady=5,relief = RIDGE,fg = "blue",
                         bg = "deep sky blue", font = "Centaur 25 bold italic", command = records ).grid(row
  5,column = 1,)
        exit button = Button(text = "EXIT",padx=6,pady=5,relief = RIDGE,fg = "white",
                         bg = "deep sky blue", font = "Centaur 30 bold italic", command = closing 1).grid(row
  4,column = 3,
        #pillow library used to import logo and display it on the window
        myimg1 = Image.open("C:/Users/DTG/Desktop/Cs class 12th Project/Icons/final matching logo.png")
        nyimg = myimg1.resize((250,200),Image.ANTIALIAS)
        myimg = ImageTk.PhotoImage(myimg)
        labe = Label(rootwin, image = myimg).grid(row=5,column=2)
        rootwin.mainloop()
#sets up tkinter window on a loop that waits for some other funtion to occur
```

```
#secondary window of billing
def bill():

#initialising billing window
rootbill = Tk()
rootbill.title("BILLING SOFTWARE")
rootbill.geometry("1120x550")
rootbill.iconbitmap(r'C:\Users\DTG\Desktop\Cs class 12th Project\Icons\fldr.ico')
rootbill.configure(bg = 'royalblue')
playsound (r''C:\Users\DTG\Desktop\Cs class 12th Project\Sounds\bt3.mp3")
```

```
e = Entry(root, width = 25,borderwidth=5,)#defining shape and size of window and buttons
e.grid(row=0,column=0,columnspan=3,padx=5,pady =5)
                def clear():
                        e.delete(0,END)
                #clears screen i.e. clears "entry" so that other value may be entered
                "basically, the entry screen acts as an onscreen container.
                  In the bolick function, it takes a value from user.
                  Then when an operator is used,
                  that initial value is stored in fnum as float value.
                  op is given a math operation and the screen is cleared.
                  Then another value is entered on the screen by user,
                  and finally the equal function takes these and according to op goes to
                  the if else statement for add sub mul div etc.
                 def power():
                           global fnum
                           global op
                           fn = e.get()
                           fnum = float(fn)
                           e.delete(0,END)
                           op = "exp"
```

```
def add():
        global fnum
        global op
        fn = e.get()
        fnum = float(fn)
        e.delete(0,END)
        op = "add"
def sub():
        global fnum
        global op
        fn = e.get()
        fnum = float (fn)
        e.delete(0,END)
        op = "sub"
def mul():
        global fnum
        global op
        fn = e.get()
        fnum = float(fn)
        e.delete(0,END)
        op = "mul"
```

```
def div():
        global fnum
        global op
        fn = e.get()
        fnum = float(fn)
        e.delete(0,END)
        op = "div"
def bequal():
        sn = float(e.get())
        e.delete(0,END)
        if op == "add":
                 e.insert(0,fnum+sn)
        if op == "sub":
                 e.insert(0,fnum-sn)
        if op == "mul":
                 e.insert(0,fnum*sn)
        if op == "div":
                 e.insert(0,fnum/sn)
        if op == "exp":
                 e.insert(0,fnum**sn)
```

```
#enters value to screen
       def bclick(n):
               current = e.get()
               e.delete(0,END)
               y= str(current)+str(n)
               e.insert(0,y)
#no. buttons defined
b1=Button(root,text="1",padx=20,pady=10,command = lambda: bclick(1)).grid(row=3,column=0)
b2=Button(root,text="2",padx=20,pady=10,command = lambda: bclick(2)).grid(row=3,column=1)
#put them on the screen
b3=Button(root,text="3",padx=20,pady=10,command = lambda: bclick(3)).grid(row=3,column=2)
b4=Button(root,text="4",padx=20,pady=10,command = lambda: bclick(4)).grid(row=2,column=0)
b6=Button(root,text="5",padx=20,pady=10,command = lambda: bclick(5)).grid(row=2,column=1)
6=Button(root,text="6",padx=20,pady=10,command = lambda : bclick(6)).grid(row=2,column=2)
b7=Button(root,text="7",padx=20,pady=10,command = lambda : bclick(5)).grid(row=1,column=0)
b8=Button(root,text="8",padx=20,pady=10,command = lambda: bclick(8)).grid(row=1,column=1)
b9=Button(root,text="9",padx=20,pady=10,command = lambda: bclick(9)).grid(row=1,column=2)
b0=Button(root,text="0",padx=20,pady=10,command = lambda : bclick(0)).grid(row=5,column=0)
```

#funtion to add a new data entry to the records directory from #the billing window information provided by user def newbill():

> x = ename.get()ename.delete(0,END) y = ephone.get() ephone.delete(0,END) z = ebillno.get() ebillno.delete(0,END) a = econtent2.get() econtent2.delete(0,END) b = econtent3.get() econtent3.delete(0,END) c = econtent4.get() econtent4.delete(0,END) d = econtent5.get() econtent5.delete(0,END) e = econtent6.get() econtent6.delete(0,END)

```
f = econtent02.get()
               econtent02.delete(0,END)
               g = econtent03.get()
               econtent03.delete(0,END)
               h = econtent04.get()
               econtent04.delete(0,END)
               i = econtent05.get()
               econtent05.delete(0,END)
               j = econtent06.get()
               econtent06.delete(0,END)
               p = "\n"
               k = [a,b,c,d,e,f,g,h,i,j]
               now = datetime.datetime.now()
               v = str(now)
               r = x + "" + y + "" + z + "" + v + ""
#a line of name, phone no., bill no., date and time saved in the text file
               mf = open('C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt', 'w')
               mf.write(r)
               mf.close()
               mf = open('C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt', 'a')
               mf.write(gwerty)
```

def closing2():

```
main_head1 = Label(rootbill, text=" BILLING
                 fg = "white",
                 bg = "deep sky blue",
                 font = "Centaur 40 bold italic", borderwidth = 10, pady = 5), grid(row = 0, column = 2)
Name = Label(rootbill,
                 text="
                         NAME
                 fg = "cyan",
                 bg = "deep sky blue",
                 font = "Centaur 20 bold italic", borderwidth = 8, pady = 5).grid(row = 1, column = 1)
Phone = Label(rootbill,
                 text=" Phone no. ".
                 fg = "cyan",
                 bg = "deep sky blue",
                 font = "Centaur 20 bold italic", borderwidth = 8, pady = 5).grid(row = 1, column = 2)
Bill = Label(rootbill,
                 text=" Bill No. ".
                 fg = "cyan",
                 bg = "deep sky blue",
                 font = "Centaur 20 bold italic", borderwidth = 8, pady = 5), grid (row = 1, column = 3)
Parts = Label(rootbill,
                 text="Parts~Services~Prices".
                 fg = "blue",
                 bg = "deep sky blue",
                 font = "Centaur 15 bold italic", borderwidth = 8, pady = 5).grid(row = 3, column = 1)
```

```
#entry fields for information of customer
ename = Entry(rootbill, width = 50,borderwidth=5,)
ename.grid(row = 2,column = 1,columnspan = 1,padx = 8,pady = 20)
ephone = Entry(rootbill, width = 50,borderwidth=5,
ephone.grid(row = 2,column = 2,columnspan = 1,padx= 8,pady = 20)
ebillno = Entry(rootbill, width = 50,borderwidth=5,)
ebillno.grid(row = 2,column = 3,columnspan = 1,padx = 8,pady = 20)

'''econtent2
econtent3
```

econtent2
econtent3
econtent4
econtent5
econtent6
econtent02
econtent03
econtent04
econtent05
econtent05

```
econtent2 = Entry(rootbill, width = 60, borderwidth = 5,)
econtent2.grid(row = 4,column = 2)
econtent3 = Entry(rootbill, width = 60, borderwidth = 5,)
econtent3.grid(row = 5,column = 2)
econtent4 = Entry (rootbill, width = 60, borderwidth = 5,)
econtent4.grid(row = 6,column = 2)
econtent5 = Entry(rootbill, width = 60, borderwidth = 5,)
econtent5.grid(row = 7,column = 2)
econtent6 = Entry(rootbill,width = 60 ,borderwidth= 5,)
econtent6.grid(row = 8,column = 2)
econtent02 = Entry(rootbill, width = 60, borderwidth = 5,)
econtent02.grid(row = 4,column = 3)
econtent03 = Entry(rootbill,width = 60,borderwidth= 5,)
econtent03.grid(row = 5,column = 3)
econtent04 = Entry(rootbill, width = 60, borderwidth = 5,)
econtent04.grid(row = 6,column = 3)
econtent05 = Entry(rootbill, width = 6, borderwidth = 5,)
econtent05.grid(row = 7,column = 3)
econtent06 = Entry(rootbill, width = 60, borderwidth = 5,)
econtent06.grid(row = 8,column = 3)
```

```
#button that invokes the previously defined function of adding a new bill
        bill_button = Button(rootbill,text = "Print Bill Entry",padx=6,pady=5,relief = RIDGE,fg = "blue",
        bg = "deep sky blue", font = "Centaur 25 bold italic",
        command = newbill).grid(row = 10,column = 2)
main_win_button = Button(rootbill,text = "<---Mainscreen",padx=6,pady=5,relief = RIDGE,fg = "white",
        bg = "deep sky blue", font = "Centaur 25 bold italic",
        command = closing 2).grid(row = 9,column = 1)
calc_button = Button(rootbill,text = "CALC.",padx=6,pady=5,relief = RIDGE,fg = "white",
        bg = "deep sky blue", font = "Centaur 25 bold italic",
        command = calculator ).grid(row = 9,column = 3)
rootbill.mainloop()
def/records():
        rootSales = Tk()
        rootSales.title (" RECORDKEEPING ")
        rootSales.geometry("1000x650")
        rootSales.iconbitmap(r'C:\Users\DTG\Desktop\Cs class 12th Project\Icons\fld.ico')
        rootSales.configure(bg = 'royalblue')
        playsound (r'C:\Users\DTG\Desktop\Cs class 12th Project\selected sounds\bt3.mp3"
```

```
def closing2():
        rootSales.destroy()
#welcome window format and customization.
spacermain1 = Label(rootSales,text = "",
                bg = "deep sky blue",
                borderwidth = 5,padx =175,pady=30).grid(row=0,column=1)
spacermain2/= Label(rootSales,text = "",
                bg = "deep sky blue",
                borderwidth = 5,padx = 175,pady=30).grid(row=0,column=3)
main_head1 = Label(rootSales,
                text=" RECORDS ",
```

font = "Centaur 40 bold italic", borderwidth = 8, pady = 5).grid(row = 0, column = 2)

fg = "white",

bg = "deep sky blue",

```
def Replacebill():
    z = ebillno2.get()
    ebillno2.delete(0,END)
    c = 'C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt'
    if os.path.exists(c):
        os.remove(c)
    else:
        print(")
        print(" The Bill does not exist. ")
        print(")
    mf = open('C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt', 'w')
    print('~Bill Replaced~')
    mf.close()
    closing2()
    bill()
```

```
def Appendtobill():
                 z = ebillno2.get()
                 ebillno2.delete(0,END)
                 now = datetime.datetime.now()
                 v = str(now)
                 c = ebilladding.get()
                 ebilladding.delete(1,END)
                 finalcontent = c + "" + v + ' * '
                 o = 'C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt'
                 b = 'latest entry: '
                 p = ' \ n'
                 if os.path.exists(o):
                          mf = open('C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt', 'a')
                          mf.write(p)
                          mf.write(b)
                          mf.write(finalcontent)
                          mf.write(p)
                          mf.close()
                 else:
                          print(")
                          print(" No record of sale. Contact Customer care at Ph = 9953951873. ")
```

print(")

```
def Show_bill():
    z = ebillno2.get()
    ebillno2.delete(0,END)
    c = 'C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt'

if os.path.exists(c):
    mf = open('C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt', 'r')
    x = mf.read()
    print(")
    print(")
    print(")
    mf.close()

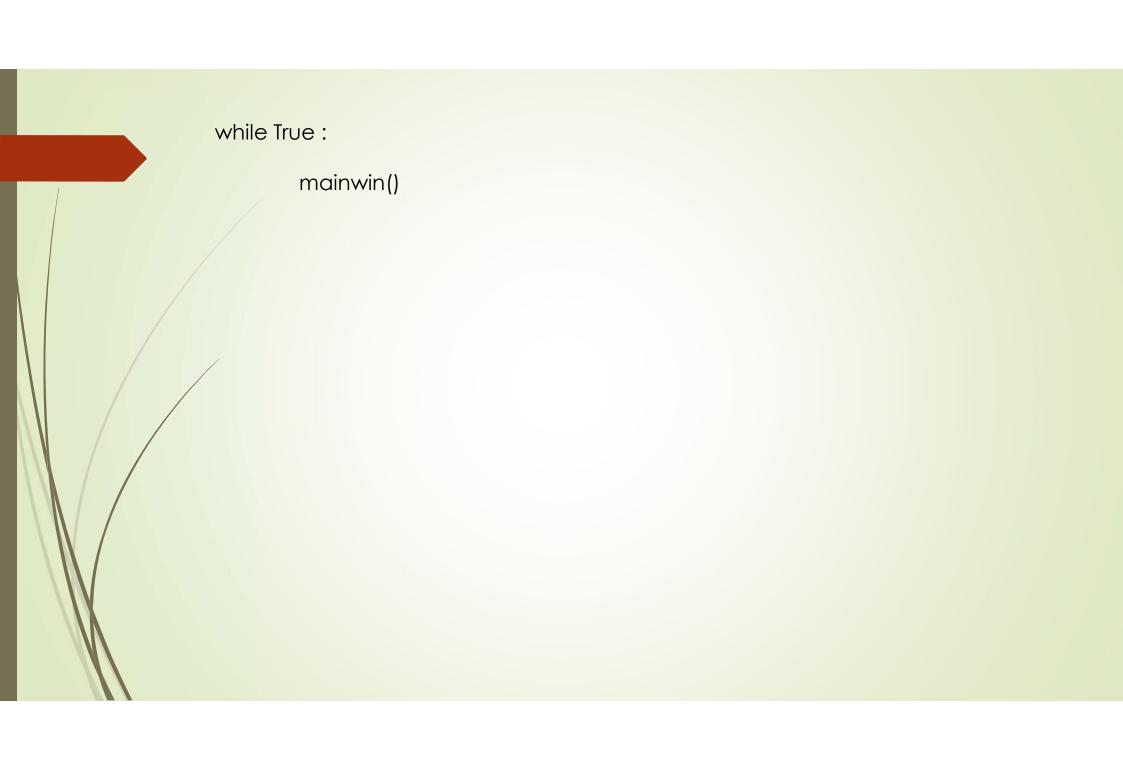
else:
    print(" The Bill does not exist. ")
```

```
def deletebill():
                   z = ebillno2.get()
                   ebillno2.delete(0,END)
                   c = 'C:/Users/DTG/Desktop/trial project cs/'+ z +'.txt'
                   if os.path.exists(c):
                            os.remove(c)
                   else:
                            print(")
                            print (" The Bill does not exist. ")
                            print(")
def showingall():
        x = '
         for filename in os.listdir('C:/Users/DTG/Desktop/trial project cs'):
                  content = open(os.path.join('C:/Users/DTG/Desktop/trial project cs/', filename), 'r')
                 x = content.read()
                  content.close()
                  print(' ')
                  print (x)
                  print(' ')
```

```
def exitrecords():
                rootSales.destroy()
spacermain1 = Label(rootSales,text = "",
                 bg = "royalblue",
                 borderwidth = 5,padx = 145,pady=5).grid(row=1,column=1)
spacermain2 = Label(rootSales,text = "",
                 bg = "royalblue",
                 borderwidth = 5,padx = 145,pady=5).grid(row=3,column=1
spacermain4 = Label(rootSales,text = "",
                  bg = "royalblue",
                  borderwidth = 5,padx =145,pady=5).grid(row=6,column=1)
Bill0 ≠ Label (rootSales,
                 text=" Bill No. ".
                 fg = "cyan",
                  bg = "deep sky blue",
                 font = "Centaur 20 bold italic", borderwidth = 8, pady = 5).grid(row = 2, column = 1
Bill3 = Label(rootSales,
                 text=" New Parts/Services To Add",
                 fg = "cyan",
                  bg = "deep sky blue",
                 font = "Centaur 20 bold italic", borderwidth = 8, pady = 5).grid(row = 7, column = 1)
```

```
ebillno2.grid(row = 2,column = 2,columnspan = 1,padx = 8,pady = 20)
ebilladding = Entry(rootSales, width = 50,borderwidth=5,)
ebilladding.grid(row = 7,column = 2,columnspan = 1,padx = 8,pady = 20)
bill_show_button = Button(rootSales,text = "Show Bill",padx=6,pady=5,relief = RIDGE,fg = "blue",
                bg = "deep sky blue", font = "Centaur 25 bold italic",
                command = Show_bill ).grid(row = 2,column = 3)
bill_rewrite_button = Button(rootSales,text = "Rewrite bill",padx=6,pady=5,relief = RIDGE,fg = "blue",
                bg = "deep sky blue",font = "Centaur 25 bold italic",
                command = Replacebill ).grid(row = 4,column = 2)
bill_aød_button = Button(rootSales,text = "Add to bill",padx=6,pady=5,relief = RIDGE,fg = "blue",
                bg = "deep sky blue", font = "Centaur 25 bold italic",
                command = Appendtobill ).grid(row = 8,column = 2)
bill_delete_button = Button(rootSales,text = "Delete Bill",padx=6,pady=5,relief = RIDGE,fg = "blue",
                bg = "deep sky blue",font = "Centaur 25 bold italic",
                command = deletebill).grid(row = 9,column = 3)
bill_show_all = Button(rootSales,text = "Show All",padx=6,pady=5,relief = RIDGE,fg = "blue",
                bg = "deep sky blue", font = "Centaur 25 bold italic",
                command = showingall ).grid(row = 9,column = 1)
records_exit = Button(rootSales,text = "Exit",padx=6,pady=5,relief = RIDGE,fg = "white",
                bg = "deep sky blue",font = "Centaur 25 bold italic",
                command = exitrecords ).grid(row = 9,column = 2)
```

ebillno2 = Entry(rootSales, width = 50,borderwidth=5,)



Bibliography:

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Shortcomings:

The bill entries made are text files and no specific detail can be accessed individually.

The directory has to be secured externally by an antivirus/operating system.

The saved bills can be externally accessed unlike binary files.