# CAR RENTAL INVENTORY

# MANAGEMENT SYSTEM

**PHYTON PROGRAMMING**

## BACHELOR OF INFORMATION TECHNOLOGY

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**ABSTRACT**

It is a **Car Rental Inventory management system** **GUI application**. It Is used to calculate the number of days the customer brought the car and the fine charge to him if he/she doesn’t return before/at the time limit.

And also generate the receipt slip for both of the customer and the rental beneficial so that both knows well who has been purchased and from whom.

Through this system it becomes easy for rental to manage all records of customer and cars in just few lines.

Through this a time taking work is convert to timeless work.

And it is easy to maintain.

It improve the customer services and transparency

It makes both customer and rental comfortable with each other and a friendly environment.

And a simple booking experience for the customer.

It convert time consuming calculations into one click calculations just by clicking a (TOTAL button).

You can also check what a customer wants just by clicking on checkbuttons.

**ACKNOWLEDGEMENT**

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With Regards

Versha

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**CHAPTER 1 - INTRODUCTION**

**PYTHON**

**Python Language Introduction**

[Python](https://www.geeksforgeeks.org/python-programming-language/) 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](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](http://www.jython.org/).

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

**PYTHON TKINTER GUI**

Tkinter Programming



Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

Creating a GUI application using Tkinter is an easy task. All you need to do is perform the following steps −

* Import the *Tkinter* module.
* Create the GUI application main window.
* Add one or more of the above-mentioned widgets to the GUI application.
* Enter the main event loop to take action against each event triggered by the user.

Example

#!/usr/bin/python

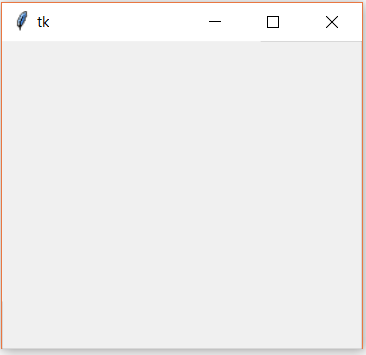
import tkinter

top = tkinter.Tk()

# Code to add widgets will go here...

top.mainloop()

This would create a following window −



**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 | **[Button](https://www.tutorialspoint.com/python/tk_button.htm)**  The Button widget is used to display buttons in your application. |
| 2 | **[Canvas](https://www.tutorialspoint.com/python/tk_canvas.htm)**  The Canvas widget is used to draw shapes, such as lines, ovals, polygons and rectangles, in your application. |
| 3 | **[Checkbutton](https://www.tutorialspoint.com/python/tk_checkbutton.htm)**  The Checkbutton widget is used to display a number of options as checkboxes. The user can select multiple options at a time. |
| 4 | **[Entry](https://www.tutorialspoint.com/python/tk_entry.htm)**  The Entry widget is used to display a single-line text field for accepting values from a user. |
| 5 | **[Frame](https://www.tutorialspoint.com/python/tk_frame.htm)**  The Frame widget is used as a container widget to organize other widgets. |
| 6 | **[Label](https://www.tutorialspoint.com/python/tk_label.htm)**  The Label widget is used to provide a single-line caption for other widgets. It can also contain images. |
| 7 | **[Listbox](https://www.tutorialspoint.com/python/tk_listbox.htm)**  The Listbox widget is used to provide a list of options to a user. |
| 8 | **[Menubutton](https://www.tutorialspoint.com/python/tk_menubutton.htm)**  The Menubutton widget is used to display menus in your application. |
| 9 | **[Menu](https://www.tutorialspoint.com/python/tk_menu.htm)**  The Menu widget is used to provide various commands to a user. These commands are contained inside Menubutton. |
| 10 | **[Message](https://www.tutorialspoint.com/python/tk_message.htm)**  The Message widget is used to display multiline text fields for accepting values from a user. |
| 11 | **[Radiobutton](https://www.tutorialspoint.com/python/tk_radiobutton.htm)**  The Radiobutton widget is used to display a number of options as radio buttons. The user can select only one option at a time. |
| 12 | **[Scale](https://www.tutorialspoint.com/python/tk_scale.htm)**  The Scale widget is used to provide a slider widget. |
| 13 | **[Scrollbar](https://www.tutorialspoint.com/python/tk_scrollbar.htm)**  The Scrollbar widget is used to add scrolling capability to various widgets, such as list boxes. |
| 14 | **[Text](https://www.tutorialspoint.com/python/tk_text.htm)**  The Text widget is used to display text in multiple lines. |
| 15 | **[Toplevel](https://www.tutorialspoint.com/python/tk_toplevel.htm)**  The Toplevel widget is used to provide a separate window container. |
| 16 | **[Spinbox](https://www.tutorialspoint.com/python/tk_spinbox.htm)**  The Spinbox widget is a variant of the standard Tkinter Entry widget, which can be used to select from a fixed number of values. |
| 17 | **[PanedWindow](https://www.tutorialspoint.com/python/tk_panedwindow.htm)**  A PanedWindow is a container widget that may contain any number of panes, arranged horizontally or vertically. |
| 18 | **[LabelFrame](https://www.tutorialspoint.com/python/tk_labelframe.htm)**  A labelframe is a simple container widget. Its primary purpose is to act as a spacer or container for complex window layouts. |
| 19 | **[tkMessageBox](https://www.tutorialspoint.com/python/tk_messagebox.htm)**  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](https://www.tutorialspoint.com/python/tk_pack.htm)*[pack()](https://www.tutorialspoint.com/python/tk_pack.htm)*[Method](https://www.tutorialspoint.com/python/tk_pack.htm)** − This geometry manager organizes widgets in blocks before placing them in the parent widget.
* **[The](https://www.tutorialspoint.com/python/tk_grid.htm)*[grid()](https://www.tutorialspoint.com/python/tk_grid.htm)*[Method](https://www.tutorialspoint.com/python/tk_grid.htm)** − This geometry manager organizes widgets in a table-like structure in the parent widget.
* **[The](https://www.tutorialspoint.com/python/tk_place.htm)*[place()](https://www.tutorialspoint.com/python/tk_place.htm)*[Method](https://www.tutorialspoint.com/python/tk_place.htm)** − This geometry manager organizes widgets by placing them in a specific position in the parent widget.

**CHAPTER 2 - IMPLEMENTATION**

**Technologies used** - Python 3.6

Python Tkinter GUI

**Language used** - Python

**CODE OF PROJECT**

import random

from logging import root

from tkinter import \*

from tkinter import Label, messagebox, StringVar

import time;

import datetime;

t=Tk()

t.title("car management system")

t.geometry('1350x700+0+0')

LeftMayFrame=Frame(t,width=1000,height=650,bd=8,relief='raise')

LeftMayFrame.pack(side=LEFT)

RightMayFrame=Frame(t,width=350,height=650,bd=8,relief='raise')

RightMayFrame.pack(side=RIGHT)

LeftMayFrame1=Frame(LeftMayFrame,width=1000,height=225,bd=8,relief='raise')

LeftMayFrame1.pack(side=TOP)

LeftMayFrame2=Frame(LeftMayFrame,width=1000,height=225,bd=8,relief='raise')

LeftMayFrame2.pack(side=TOP)

LeftMayFrame3=Frame(LeftMayFrame,width=1000,height=100,bd=8,relief='raise')

LeftMayFrame3.pack(side=TOP)

LeftMayFrame4=Frame(LeftMayFrame,width=1000,height=100,bd=8,relief='raise')

LeftMayFrame4.pack(side=TOP)

RightMayFrame1=Frame(RightMayFrame,width=350,height=325,bd=8,relief='raise')

RightMayFrame1.pack(side=TOP)

RightMayFrame2=Frame(RightMayFrame,width=350,height=325,bd=8,relief='rais e')

RightMayFrame2.pack(side=BOTTOM)

txtReceipt=Text(RightMayFrame2,height=16,width=33,bd=8,font=('arial',11,'bold'))

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

#-----------------------------------------------Cost of Renting a Car---------------------------------------------

def CarRentalCost():

NoofDays=float(NumberOfDays.get())

CarDiscount=float(Discount.get())

DailyRate=float(DaysRented.get())

RentalCost=(((NoofDays\*DailyRate)\*CarDiscount)/100)

CostofRental="$",str("%.2f"%((NoofDays\*DailyRate)-RentalCost))

Total.set(CostofRental)

ID=random.randint(51,95)

randomID=str(ID)

CustomerID.set("CAR"+randomID)

Inv=random.randint(15,112)

InvID=str(Inv)

InvoiceId.set("INV"+InvID)

#-----------------------------------------------Variable----------------------------------------------------------

var1=IntVar()

var2=IntVar()

var3=IntVar()

var4=IntVar()

var5=IntVar()

var6=IntVar()

var7=IntVar()

var8=IntVar()

CustomerID=StringVar()

DaysRented=StringVar()

Discount=StringVar()

NumberOfDays=StringVar()

InvoiceId=StringVar()

Total=StringVar()

EngineSize=StringVar()

Style=StringVar()

RegisteredYear=StringVar()

ClassId=StringVar()

CarDiscription=StringVar()

MilesBefore=StringVar()

MilesAfter=StringVar()

Make=StringVar()

Model=StringVar()

CarColour=StringVar()

CarInsurance=StringVar()

Area=StringVar()

IssueBy=StringVar()

IssueDate=StringVar()

LicenceNumber=StringVar()

LastName=StringVar()

Street=StringVar()

EngineMade=StringVar()

FirstName=StringVar()

Title=StringVar()

Customer=StringVar()

PostCode=StringVar()

Dateoforder=StringVar()

Receipt\_Ref=StringVar()

#------------------------------------------Function Defination-----------------------------------------------------

def uExit():

a=messagebox.askyesno("Exit system","Do you want to quit?")

if a>0:

t.destroy()

return

#-------------------------------------------Reset------------------------------------------------------------------

def Reset():

var1.set("")

var2.set("")

var3.set("")

var4.set("")

var5.set(0)

var6.set(0)

var7.set(0)

var8.set(0)

DaysRented.set("")

Discount.set("")

NumberOfDays.set("")

Total.set("")

EngineSize.set("")

RegisteredYear.set("")

CarDiscription.set("")

MilesBefore.set(" ")

MilesAfter.set("")

Make.set(" ")

Model.set("")

EngineMade.set("")

CarColour.set("")

Dateoforder.set("")

Receipt\_Ref.set("")

CarInsurance.set(" ")

Area.set("")

IssueBy.set("")

IssueDate.set(" ")

LicenceNumber.set("")

LastName.set("")

Street.set("")

FirstName.set("")

Title.set("")

Customer.set("")

PostCode.set("")

MilesBefore.set(" ")

MilesAfter.set("")

txtReceipt.delete("1.0",END)

#--------------------------------------------Receipt-----------------------------------------------------------------

def Receipt():

txtReceipt.delete("1.0",END)

x = random.randint(108,506)

randomRef=str(x)

Receipt\_Ref.set("BILL"+randomRef)

txtReceipt.insert(END,"Receipt Ref:\t"+Receipt\_Ref.get()+'\n\nDate:\t'+IssueDate.get()+"\n\n")

txtReceipt.insert(END,"CAR RENTAL SERVICES\n\n")

txtReceipt.insert(END,"CustomerID: \t"+txtCustomerId.get()+"\n\n")

txtReceipt.insert(END,"Days Rented: \t"+DaysRented.get()+"\n\n")

txtReceipt.insert(END,"NumberOfDays: \t"+NumberOfDays.get()+"\n\n")

txtReceipt.insert(END,"InvoiceID: \t"+txtInvoiceId.get()+"\n\n")

txtReceipt.insert(END,"Discount: \t"+Discount.get()+"\n\n")

txtReceipt.insert(END,"TOtal: \t"+Total.get()+"\n\n")

#-----------------------------------------RightMayFrame1------------------------------------------------------------

Style=Checkbutton(RightMayFrame1,text='STYLE\t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

Style.grid(row=0,sticky=W)

ClassId=Checkbutton(RightMayFrame1,text='CLASS ID\t\t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

ClassId.grid(row=1,sticky=W)

InvoiceId=Checkbutton(RightMayFrame1,text='INVOICE ID\t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

InvoiceId.grid(row=2,sticky=W)

DailyRate=Checkbutton(RightMayFrame1,text='DAILY RATE\t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

DailyRate.grid(row=3,sticky=W)

Automatic=Checkbutton(RightMayFrame1,text='AUTOMATIC\t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

Automatic.grid(row=4,sticky=W)

AirCondition=Checkbutton(RightMayFrame1,text='AIR CONDITION \t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

AirCondition.grid(row=5,sticky=W)

InsuranceSold=Checkbutton(RightMayFrame1,text='INSURANCE SOLD \t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

InsuranceSold.grid(row=6,sticky=W)

CustomerDetails=Checkbutton(RightMayFrame1,text='CUSTOMER DETAILS \t',onvalue=1,offvalue=0,font=('arial',14,'bold'))

CustomerDetails.grid(row=7,sticky=W)

#----------------------------------------LeftMayFrame1-------------------------------------------------------------

lb1Customer=Label(LeftMayFrame1,font=('arial',11,'bold'),text="CUSTOMER",bd=8)

lb1Customer.grid(row=0,column=0,sticky=W)

txtCustomer=Entry(LeftMayFrame1 ,font=('arial',11,'bold'),text="CUSTOMER",bd=8,width=31,justify='left' ,textvariable=Customer)

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

lb1Title=Label(LeftMayFrame1,font=('arial',11,'bold'),text="TITLE",bd=8)

lb1Title.grid(row=0,column=2,sticky=W)

txtTitle=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="TITLE",bd=8,width=31,justify='left',textvariable=Title)

txtTitle.grid(row=0,column=3)

lb1FirstName=Label(LeftMayFrame1,font=('arial',11,'bold'),text="FIRST NAME",bd=8)

lb1FirstName.grid(row=0,column=4,sticky=W)

txtFirstName=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="FIRST NAME",bd=8,width=31,justify='left',textvariable=FirstName)

txtFirstName.grid(row=0,column=5)

lb1LastName=Llb1CustomerID=Label(LeftMayFrame1,font=('arial',11,'bold'),text="LAST NAME",bd=8)

lb1LastName.grid(row=1,column=0,sticky=W)

txtLastName=Entry(LeftMayFrame1 ,font=('arial',11,'bold'),text="LAST NAME",bd=8,width=31,justify='left',textvariable=LastName)

txtLastName.grid(row=1,column=1)

lb1Street=Label(LeftMayFrame1,font=('arial',11,'bold'),text="STREET",bd=8)

lb1Street.grid(row=1,column=2,sticky=W)

txtStreet=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="STREET",bd=8,width=31,justify='left',textvariable=Street)

txtStreet.grid(row=1,column=3)

lb1Area=Label(LeftMayFrame1,font=('arial',11,'bold'),text="AREA",bd=8)

lb1Area.grid(row=1,column=4,sticky=W)

txtArea=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="AREA",bd=8,width=31,justify='left',textvariable=Area)

txtArea.grid(row=1,column=5)

lb1PostCode=Label(LeftMayFrame1,font=('arial',11,'bold'),text="POST CODE ",bd=8)

lb1PostCode.grid(row=2,column=0,sticky=W)

txtPostCode=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="POST CODE",bd=8,width=31,justify='left',textvariable=PostCode)

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

lb1LicenceNumber=Label(LeftMayFrame1,font=('arial',11,'bold'),text="LICENCE NUMBER",bd=8)

lb1LicenceNumber.grid(row=2,column=2,sticky=W)

txtLicenceNumber=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="LICENCE NUMBER",bd=8,width=31,justify='left',textvariable=LicenceNumber)

txtLicenceNumber.grid(row=2,column=3)

lb1IssueDate=Label(LeftMayFrame1,font=('arial',11,'bold'),text="ISSUE DATE ",bd=8)

lb1IssueDate.grid(row=2,column=4,sticky=W)

txtIssueDate=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="ISSUE DATE",bd=8,width=31,justify='left',textvariable=IssueDate)

txtIssueDate.grid(row=2,column=5)

lb1IssueBy=Label(LeftMayFrame1,font=('arial',11,'bold'),text="ISSUE BY ",bd=8)

lb1IssueBy.grid(row=3,column=0,sticky=W)

txtIssueBy=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="ISSUE BY ",bd=8,width=31,justify='left',textvariable=IssueBy)

txtIssueBy.grid(row=3,column=1)

lb1MilesBefore=Label(LeftMayFrame1,font=('arial',11,'bold'),text="MILES BEFORE",bd=8)

lb1MilesBefore.grid(row=3,column=2,sticky=W)

txtMilesBefore=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="MILES BEFORE",bd=8,width=31,justify='left',textvariable=MilesBefore)

txtMilesBefore.grid(row=3,column=3)

lb1MilesAfter=Label(LeftMayFrame1,font=('arial',11,'bold'),text="MILES AFTER ",bd=8)

lb1MilesAfter.grid(row=3,column=4,sticky=W)

txtMilesAfter=Entry(LeftMayFrame1,font=('arial',11,'bold'),text="MILES AFTER",bd=8,width=31,justify='left',textvariable=MilesAfter)

txtMilesAfter.grid(row=3,column=5)

#--------------------------------------------RightMayFrame2----------------------------------------------------

txtReceipt=Text(RightMayFrame2,height=20,width=35,bd=8,font=('arial',11,'bold'))

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

#---------------------------------------------Date in RightMayFrame-----------------------------------------------

Dateoforder.set(time.strftime("%d/%m/%y"))

#---------------------------------------LeftMayFrame2--------------------------------------------------------------

lb1EngineSize=Label(LeftMayFrame2,font=('arial',11,'bold'),text="ENGINE SIZE",bd=8)

lb1EngineSize.grid(row=0,column=0,sticky=W)

txtEngineSize=Entry(LeftMayFrame2 ,font=('arial',11,'bold'),text="ENGINE SIZE",bd=8,width=31,justify='left',textvariable=EngineSize)

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

lb1Style=Label(LeftMayFrame2,font=('arial',11,'bold'),text="STYLE",bd=8)

lb1Style.grid(row=0,column=2,sticky=W)

txtStyle=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="STYLE",bd=8,width=31,justify='left',textvariable=var3)

txtStyle.grid(row=0,column=3)

lb1RegisteredYear=Label(LeftMayFrame2,font=('arial',11,'bold'),text="REGISTERED YEAR",bd=8)

lb1RegisteredYear.grid(row=0,column=4,sticky=W)

txtRegisteredYear=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="REGISTERED YEAR",bd=8,width=31,justify='left',textvariable=RegisteredYear)

txtRegisteredYear.grid(row=0,column=5)

lb1ClassId=Label(LeftMayFrame2,font=('arial',11,'bold'),text="CLASS ID",bd=8)

lb1ClassId.grid(row=1,column=0,sticky=W)

txtClassId=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="CLASS ID",bd=8,width=31,justify='left',textvariable=var4)

txtClassId.grid(row=1,column=1)

lb1CarDiscription=Label(LeftMayFrame2,font=('arial',11,'bold'),text="CAR DISCRIPTION",bd=8)

lb1CarDiscription.grid(row=1,column=2,sticky=W)

txtCarDiscription=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="CAR DISCRIPTION",bd=8,width=31,justify='left',textvariable=CarDiscription)

txtCarDiscription.grid(row=1,column=3)

lb1MilesBefore=Label(LeftMayFrame2,font=('arial',11,'bold'),text="MILES BEFORE",bd=8)

lb1MilesBefore.grid(row=1,column=4,sticky=W)

txtMilesBefore=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="MILES BEFORE",bd=8,width=31,justify='left',textvariable=MilesBefore)

txtMilesBefore.grid(row=1,column=5)

lb1MilesAfter=Label(LeftMayFrame2,font=('arial',11,'bold'),text="MILES AFTER",bd=8)

lb1MilesAfter.grid(row=2,column=0,sticky=W)

txtMilesAfter=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="NUMBER OF DAYS",bd=8,width=31,justify='left',textvariable=MilesAfter)

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

lb1Make=Label(LeftMayFrame2,font=('arial',11,'bold'),text="MAKE",bd=8)

lb1Make.grid(row=2,column=2,sticky=W)

txtMake=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="MAKE",bd=8,width=31,justify='left',textvariable=Make)

txtMake.grid(row=2,column=3)

lb1Model=Label(LeftMayFrame2,font=('arial',11,'bold'),text="MODEL",bd=8)

lb1Model.grid(row=2,column=4,sticky=W)

txtModel=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="TOTAL",bd=8,width=31,justify='left',textvariable=Model)

txtModel.grid(row=2,column=5)

lb1EngineMade=Label(LeftMayFrame2,font=('arial',11,'bold'),text="ENGINE MADE",bd=8)

lb1EngineMade.grid(row=3,column=0,sticky=W)

txtEngineMade=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="ENGINE MADE",bd=8,width=31,justify='left',textvariable=EngineMade)

txtEngineMade.grid(row=3,column=1)

lb1CarColour=Label(LeftMayFrame2,font=('arial',11,'bold'),text="CAR COLOUR",bd=8)

lb1CarColour.grid(row=3,column=2,sticky=W)

txtCarColour=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="CAR COLOUR ",bd=8,width=31,justify='left',textvariable=CarColour)

txtCarColour.grid(row=3,column=3)

lb1CarInsurance=Label(LeftMayFrame2,font=('arial',11,'bold'),text="CAR INSURANCE",bd=8)

lb1CarInsurance.grid(row=3,column=4,sticky=W)

txtCarInsuramce=Entry(LeftMayFrame2,font=('arial',11,'bold'),text="CAR INSURANCE ",bd=8,width=31,justify='left',textvariable=CarInsurance)

txtCarInsuramce.grid(row=3,column=5)

#----------------------------------------LeftMayFrame3-----------------------------------------------------

lb1CustomerID=Label(LeftMayFrame3,font=('arial',11,'bold'),text="CUSTOMER ID",bd=8)

lb1CustomerID.grid(row=0,column=0,sticky=W)

txtCustomerId=Entry(LeftMayFrame3,font=('arial',11,'bold'),text="CUSTOMER ID",bd=8,width=31,justify='left',textvariable=var1)

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

lb1DaysRented=Label(LeftMayFrame3,font=('arial',11,'bold'),text="DAYS RENTED",bd=8)

lb1DaysRented.grid(row=0,column=2,sticky=W)

txtDaysRented=Entry(LeftMayFrame3,font=('arial',11,'bold'),text="CUSTOMER ID",bd=8,width=31,justify='left',textvariable=DaysRented)

txtDaysRented.grid(row=0,column=3)

lb1Discount=Label(LeftMayFrame3,font=('arial',11,'bold'),text="DISCOUNT",bd=8)

lb1Discount.grid(row=0,column=4,sticky=W)

txtDiscount=Entry(LeftMayFrame3,font=('arial',11,'bold'),text="DISCOUNT",bd=8,width=31,justify='left',textvariable=Discount)

txtDiscount.grid(row=0,column=5)

lb1NumberOfDays=Label(LeftMayFrame3,font=('arial',11,'bold'),text="NUMBER OF DAYS",bd=8)

lb1NumberOfDays.grid(row=1,column=0,sticky=W)

txtNumberOfDays=Entry(LeftMayFrame3,font=('arial',11,'bold'),text="NUMBER OF DAYS",bd=8,width=31,justify='left',textvariable=NumberOfDays)

txtNumberOfDays.grid(row=1,column=1)

lb1InvoiceId=Label(LeftMayFrame3,font=('arial',11,'bold'),text="INVOICE ID",bd=8)

lb1InvoiceId.grid(row=1,column=2,sticky=W)

txtInvoiceId=Entry(LeftMayFrame3,font=('arial',11,'bold'),text="INVOICE ID",bd=8,width=31,justify='left',textvariable=var2)

txtInvoiceId.grid(row=1,column=3)

lb1Total=Label(LeftMayFrame3,font=('arial',11,'bold'),text="TOTAL",bd=8)

lb1Total.grid(row=1,column=4,sticky=W)

txtTotal=Entry(LeftMayFrame3,font=('arial',11,'bold'),text="TOTAL",bd=8,width=31,justify='left',textvariable=Total)

txtTotal.grid(row=1,column=5)

#--------------------------------------------------LeftMayFrame4-----------------------------------------------

btnTotal=Button(LeftMayFrame4,text='TOTAL',padx=4,pady=4,bd=16,fg="black",font=('arial',11,'bold'),width=20,height=1,command=CarRentalCost)

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

btnReceipt=Button(LeftMayFrame4,text='RECEIPT',padx=4,pady=4,bd=16,fg="black",font=('arial',11,'bold'),width=20,height=1,command=Receipt)

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

btnReset=Button(LeftMayFrame4,text='RESET',padx=4,pady=4,bd=16,fg="black",font=('arial',11,'bold'),width=20,height=1,command=Reset)

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

btnExit=Button(LeftMayFrame4,text='EXIT',padx=4,pady=4,bd=16,fg="black",font=('arial',11,'bold'),width=20,height=1,command=uExit)

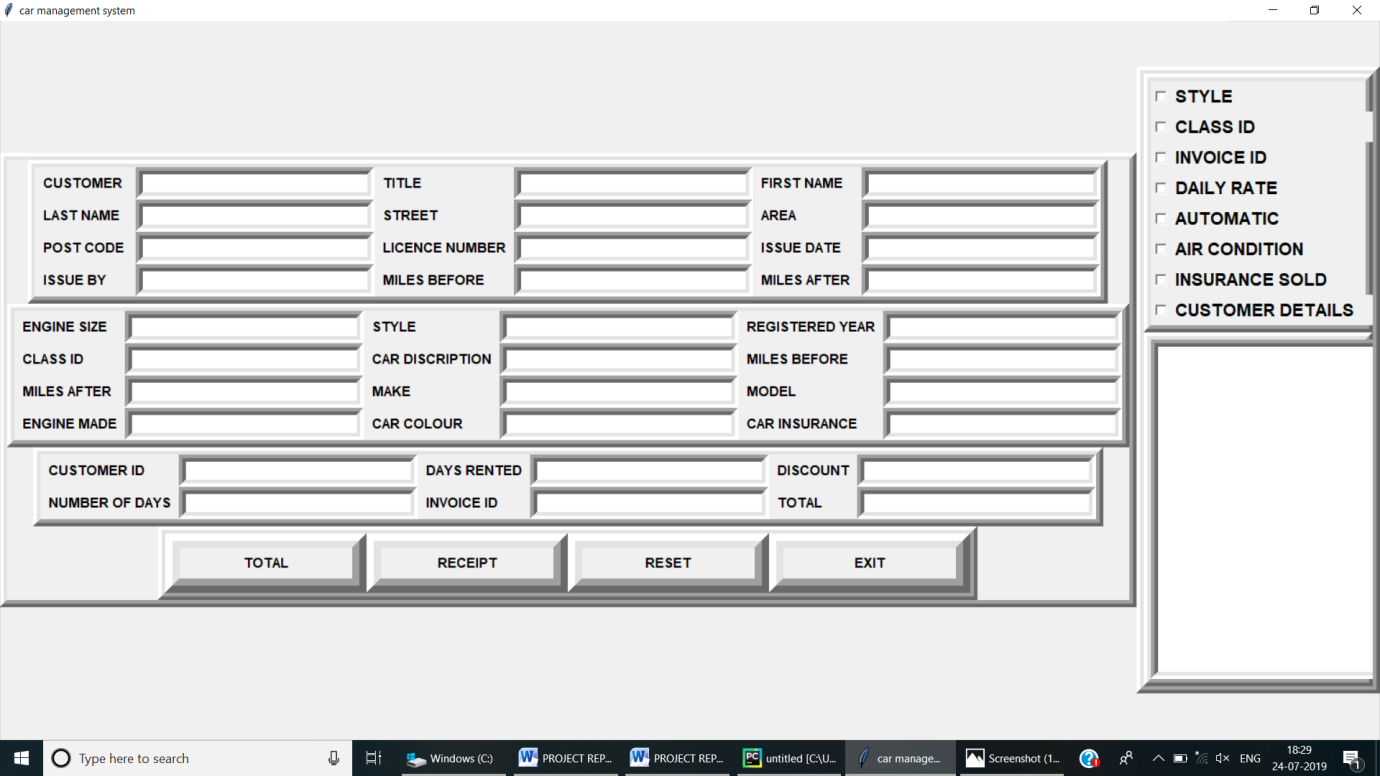
btnExit.grid(row=0,column=3)

t.mainloop()

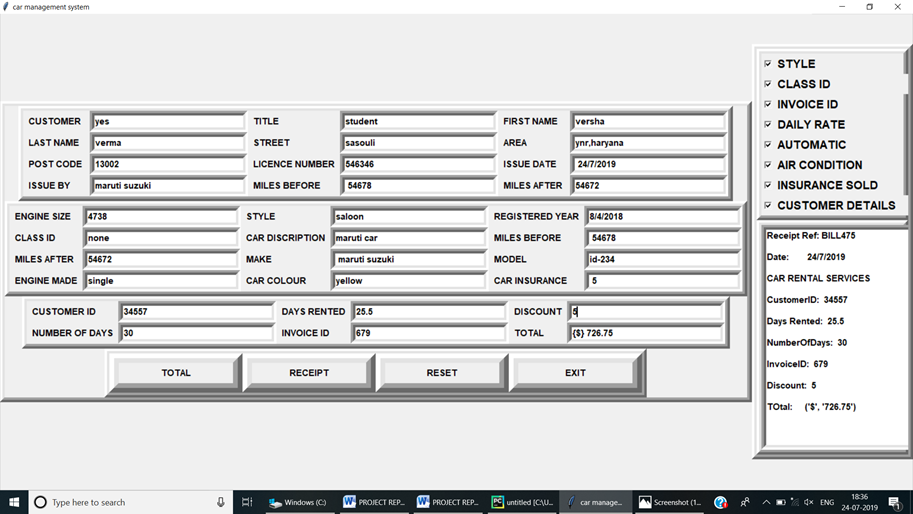
**CHAPTER 3 – SCREENSHOTS**

**GUI** – Main display window with information of Car Rental Inventory Management System

1.**GUI OF CAR RENTAL INVENTORY MANAGEMENT SYSTEM**

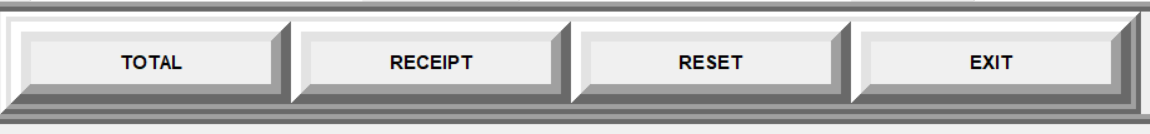


**It is a front end of the Car Rental Inventory Management System**

**2.Calaulate the total money customer have to pay with receipt:**

**After calculate the money the customer have to pay and generate the whole information containing receipt.**

**3.Add Button**

****

**1.TOTAL:**

After clicking this button total amount which customer has to pay is shows.

**2.RECEIPT:**

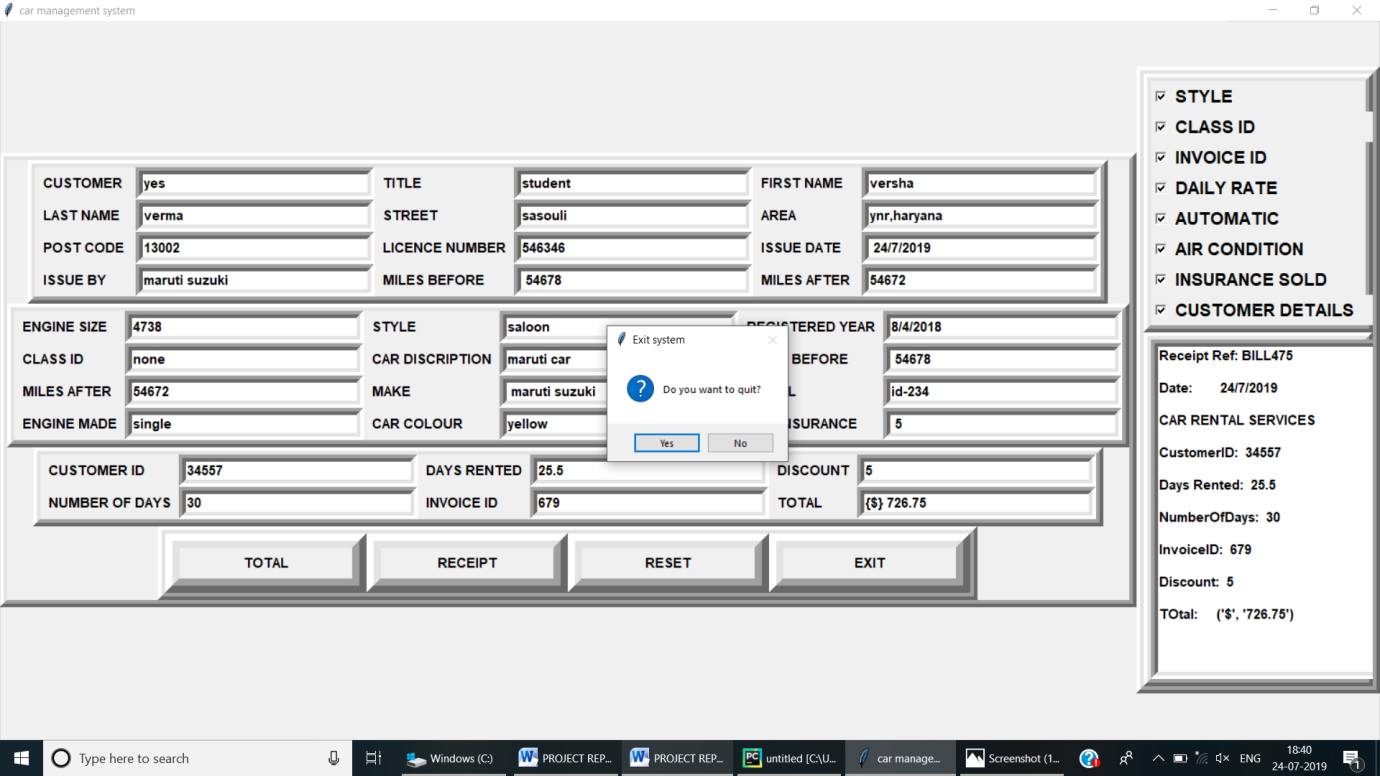
After clicking this button the receipt of Car rent is shown.

**3.RESET:**

After clicking this button all details are reset.

**4.EXIT:**

After clicking this button we are exit from the system.



**CHAPTER 4 –**

**CONCLUSION**

This project has really been faithful and informative. It has made me 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 me a valuable lifelong lesson about the improvements and working and interacting in a group.