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# **Project Report**

Informatics Practices (065)

(Session: 2023-24)

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Class : XII

Section : A

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# CERTIFICATE

NAME : ASHUTOSH PRAJAPATI CLASS/SEC : XII-A
ROLL NO : EXAM NAME: AISSCE

This is to certify that content of this project

\*Bike Showroom Management\*

by

Ashutosh Prajapati

is the bonafide work of him/her submitted to

Lucknow Public School, Jankipuram

for consideration in the partial accomplishment of the provision of CBSE, for the award of

All India Senior Secondary Certificate Examination

in

Informatics Practices -065

THE ORIGINAL RESEARCH WORK WAS CARRIED OUT BY HIM/HER UNDER MY SUPERVISION IN THE ACADEMIC YEAR 2023-24. ON THE BASIS OF THE DECLARATION MADE BY HIM/HER, I RECOMMENDED THE PROJECT REPORT FOR EVALUATION.

**EXAMINER'S SIGNATURE** 

**TEACHER IN-CHARGE** 

**PRINCIPAL** 

DATE

## **ACKNOWLEDGEMENT**

I take this opportunity with great pleasure and respect to express my first and foremost thanks to the principal,

#### "Mrs. Shabnam Singh"

for her encouragement and for the facilities that she provided for this project work. I extend my hearty thanks to

#### "Mr. Abhay Pratap Singh"

Informatics Practices Teacher who guided me throughout the successful completion of this project. I take this opportunity to express my deep sense of gratitude for his guidance, constant encouragement, immense motivation, which has sustained my efforts at all the stages of thisproject.

I can't forget to offer my sincere thanks to the parents and to also my classmates who helped me to carry out this project work successfully and for their valuable advice and support, which I received from time to time.

# **CONTENT**

- INTRODUCTION
- SOFTWARE & HARDWARE REQUIREMENT
- SOURCE CODE IN PYTHON
- OUTPUT SCREEN
- BIBLIOGRAPHY

## **INTRODUCTION**

This project aims to create a user-friendly and simple "BIKE SHOWROOM MANAGEMENT SYSTEM"

in which it allows the user to purchase a vehicle and the system enters its record in the database along with the previously stored data and allows user to receive the bill for their respective purchases.

The system is created by using the following technologies:

- **Python** A general purpose programming laguage which is popular around the world and is easy to learn and use.
- **Tkinter** A built-in module in Python language which allows user to create Graphic User Interfaces (GUIs).
- **Pandas** A Python library used for data management and manipulation
- CSV(Comma Separated Values) A file format used to store data.

# SOFTWARE AND HARDWARE REQUIREMENT

#### **Software Specification: -**

**Operating system:** Windows 7 or above

Platform: Python IDLE 3.10 or above

Languages: Python

#### Hardware specification: -

Processor: Dual core or above

Hard Disk: 40 GB

RAM: 2 GB

#### **Note:**

Please install the following libraries before running the program:

- Pandas
- Tkinter (if not built-in)

## **SOURCE CODE**

```
# imports
import pandas as pd
from tkinter import *
import tkinter as tk
from datetime import datetime
# configuring tkinter window
win = Tk()
win.geometry('700x500')
win.title("Welcome to TVS AP MOTORS")
win.rowconfigure(index=15,weight=1)
win.columnconfigure(index=12,weight=1)
# form
customername = StringVar()
fathername = StringVar()
emailid = StringVar()
phone = StringVar()
model = StringVar()
price = IntVar()
qty = IntVar()
mddict = {"Jupiter110cc": 68998,"NTORQ125CC": 73490,"RR310": 78590,"XL100":
84990,"Raider125": 86990,"Ronin225": 265000}
mdlsavail = ['Jupiter110cc','NTORQ125CC','RR310','XL100','Raider125','Ronin225']
mdlsprice=[68998,73490,78590,84990,86990,265000]
Label(win,text="MODELS AVAILABLE WITH THEIR
PRICE").grid(row=1,column=0)
for i in range(6):
    Label(win,text=mdlsavail[i],borderwidth=1,relief='solid',width=26).grid(row=i+1,co
    lumn=1,columnspan=1)
    Label(win,text=mdlsprice[i],borderwidth=1,relief='solid',width=26).grid(row=i+1,co
    lumn=2)
Label(win,text="Customer Name *").grid(row=7,column=0)
Label(win,text="Father Name * ").grid(row=8,column=0)
Label(win,text="Email ID * ").grid(row=9,column=0)
Label(win,text="Phone Number * ").grid(row=10,column=0)
Label(win,text="Model").grid(row=11,column=0)
Label(win,text="Quantity").grid(row=12,column=0)
Label(win, text='Entries with * are mandatory.').grid(row=13,column=0)
Entry(win, width=30,textvariable=customername).grid(row=7,column=1)
Entry(win, width=30,textvariable=fathername).grid(row=8,column=1)
Entry(win, width=30,textvariable=emailid).grid(row=9,column=1)
Entry(win, width=30,textvariable=phone).grid(row=10,column=1)
Entry(win, width=30,textvariable=model).grid(row=11,column=1)
```

```
Entry(win, width=30,textvariable=qty).grid(row=12,column=1)
# pandas
def datasend():
   df = pd.read csv('project\\bikepurchaseDB.csv')
   if model.get() in mdlsavail and phone.get().isnumeric() == True:
       entrydict={'Customer':customername.get(),'Father':fathername.get(),'Email':em
      ailid.get(),'Phone':int(phone.get()),'Model':model.get(),'Price':mddict[model.get()
      ],'Quantity':qty.get()}
      df.loc[len(df.index)]=entrydict
   else:
      errorwin = Tk()
      Label(errorwin,text='Enter valid Details.').pack()
      Button(errorwin,text='OK',command=errorwin.destroy).pack()
      errorwin.mainloop()
    df.to csv('school\\c12\\project\\project2.0\\bikepurchaseDB.csv', index=False)
    print(df)
# new window
def new window():
    billwin = Toplevel(win)
    billwin.columnconfigure(index=5,weight=1)
    billwin.rowconfigure(index=7,weight=1)
    billwin.title('BILL | AP MOTORS')
    Label(billwin,text='
                           AP MOTORS',
    font=('Algerian',36)).grid(row=1,column=1,columnspan=3)
    Label(billwin,text='
                                  XYZ Road, Jankipuram, Lucknow - 226220',
    font='Arial').grid(row=2,column=1,columnspan=3)
    Label(billwin,text='
                                  Email - apmotorslko@hotmail.com
                                                                           Contact -
    0522-696969', font='Arial').grid(row=3,column=1,columnspan=3)
    Label(billwin,text='Details of Customer
                                                  Date:{} Time:{}
                                                                       \n Name: {} s/o
    {} | Email:
    {}'.format(datetime.now().date(),datetime.now().strftime("%H:%M:%S"),customer
    name.get(),fathername.get(),emailid.get()),font=('Arial',10),borderwidth=1,relief='so
    lid',width=91).grid(row=4,column=1,columnspan=4)
    Label(billwin,text='Description of
    Goods',font=('Arial',12),borderwidth=1,relief='solid',width=50).grid(row=5,column
    =1)
    Label(billwin,text='Quantity',font=('Arial',12),borderwidth=1,relief='solid',width=1
    0).grid(row=5,column=2)
    Label(billwin,text='Rate',font=('Arial',12),borderwidth=1,relief='solid',width=10).g
    rid(row=5,column=3)
    Label(billwin,text='Amount',font=('Arial',12),borderwidth=1,relief='solid',width=10
    ).grid(row=5,column=4)
    Label(billwin,text='{}
    {}'.format('TVS',model.get()),font=('Arial',12),height=5,width=50,borderwidth=1,re
    lief='solid',anchor=N).grid(row=6,column=1)
    Label(billwin,text='{}'.format(qty.get()),font=('Arial',12),borderwidth=1,relief='soli
    d',height=5,width=10,anchor=N).grid(row=6,column=2)
    Label(billwin,text='{}'.format(mddict[model.get()]),font=('Arial',12),borderwidth=1,
```

```
relief='solid',height=5,width=10,anchor=N).grid(row=6,column=3)
```

Label(billwin,text=(mddict[model.get()]\*qty.get()),font=('Arial',12),borderwidth=1,r elief='solid',height=5,width=10,anchor=N).grid(row=6,column=4)
Label(billwin,text='TOTAL

AMOUNT',font=('Arial',12),borderwidth=1,relief='solid',height=2,width=71,anchor=CENTER).grid(row=7,column=1,columnspan=3)

Label(billwin,text=(mddict[model.get()]\*qty.get()),font=('Arial',12),borderwidth=1,r elief='solid',height=2,width=10,anchor=CENTER).grid(row=7,column=4)

Button(win, text='SUBMIT', command=datasend).grid(row=14,column=1) Button(win, text='BILL', command=new window).grid(row=14,column=2)

#### mainloop()

```
Label(win,text="Customer Name *").grid(row=7,column=0) # customer
Label(win,text="Father Name * ").grid(row=8,column=0) # father
Label(win,text="Email ID * ").grid(row=9,column=0) # email
Label(win,text="Phone Number * ").grid(row=10,column=0) # phone
Label(win,text="Model").grid(row=11,column=0) # bike model
Label(win,text="Quantity").grid(row=12,column=0) # gty
Label(win,text="Entries with * are mandatory.').grid(row=13,column=0) # warning
Entry(win , width=30,textvariable=customername).grid(row=7,column=1) # customer entry
Entry(win , width=30,textvariable=fathername).grid(row=8,column=1) # father entry
Entry(win , width=30,textvariable=emailid).grid(row=9,column=1) # email entry
Entry(win , width=30,textvariable=phone).grid(row=10,column=1) # phone entry
Entry(win , width=30,textvariable=model).grid(row=11,column=1) # model entry
Entry(win , width=30,textvariable=model).grid(row=11,column=1) # model entry
 Entry(win , width=30,textvariable=qty).grid(row=12,column=1) # qty entry
# pandas
def
              datased():
df = pd.read_csv('ch o \ .c:\'_i ro_s t'_pr je t \.( \bikepurchaseDB.csv')

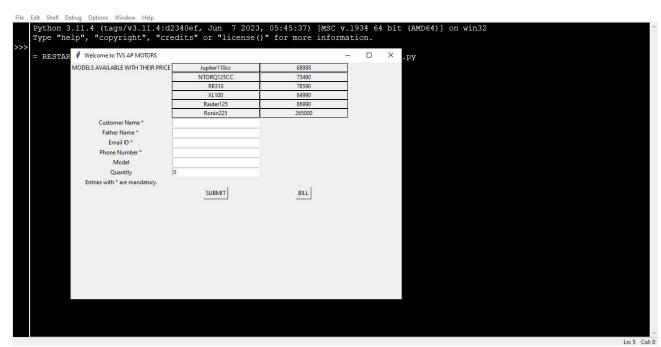
# entries = [customername.get(), fathername.get(), emailid.get(), phone.get(), company.get(), model.get(), price.get()]

if model.get() in mdlsavail and phone.get().isnumeric() == True:
    entrydict={'Customer':customername.get(), 'Father':fathername.get(), 'Email':emailid.get(), 'Phone':int(phone.get()), 'Model':mode
    df.loc[len(df.index)]=entrydict #type: ignore
               else:
                              errorwin = Tk()
                              Endowwin - 18(7)
Label (errorwin, text='Enter valid Details.').pack()
Button (errorwin, text='OK', command=errorwin.destroy).pack()
                                errorwin.mainloop()
               # dfnew = pd.DataFrame(entrydict)
# df = df.add(dfnew)
               df.to_csv('school\c12\project\\project2.0\\bikepurchaseDB.csv', index=False)
                # df = df.add(dfnew)
                                                                     c\\cli\\ rojejec rpr\0\\
               df.to_csv('sc'
                                                                                                                                                                            0\\bikepurchaseDB.csv', index=False)
 # vals = [customername, fathername, emailid, phone, company, model, price]
 # new window
def
               billwin = Toplevel(win)
billwin.columnconfigure(index=5,weight=1)
               billwin.columnconfigure(index=5, weight
billwin.rowconfigure(index=7, weight=1)
billwin.title('BILL | AP MOTORS')
Label(billwin, text=' AP MOTORS'
Label(billwin, text='
Label(billwin, text='
             Label(billwin, text=' AP MOTORS', font=('Algerian',36)).grid(row=1,column=1,columnspan=3)
Label(billwin, text=' XYZ Road, Jankipuram, Lucknow - 226220', font='Arial').grid(row=2,column=1,columnspan=3)
Label(billwin, text=' Email - apmotorslko@hotmail.com Contact - 0522-696969', font='Arial').grid(row=3
Label(billwin, text='Details of Customer Date:{} Time:{} \n Name:{} Syo.{} | Email:{}'.format(datetime.now(
Label(billwin, text='Description of Goods',font='Arial',12),borderwidth=1,relief='solid',width=50).grid(row=5,column=2)
Label(billwin, text='Quantity',font=('Arial',12),borderwidth=1,relief='solid',width=10).grid(row=5,column=3)
Label(billwin, text='Amount',font=('Arial',12),borderwidth=1,relief='solid',width=10).grid(row=5,column=3)
Label(billwin, text='{} {}'.format('TVS',model.get()),font=('Arial',12),height=5,width=50,borderwidth=1,relief='solid',anchor=N).grid(row=5,column=4)
Label(billwin, text='{}'.format(qty.get()),font=('Arial',12),borderwidth=1,relief='solid',height=5,width=10,anchor=N).grid(row=5,column+1).grid(row=5,column+1)
Label(billwin, text='{}'.format(qty.get()),font=('Arial',12),borderwidth=1,relief='solid',height=5,width=10,anchor=N).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=5,column+1).grid(row=
                                                                                                                       AP MOTORS', font=('Algerian', 36)).grid(row=1, column=1, columnspan=3)
  Button(win , text='SUBMIT', command=datasend).grid(row=14,column=1)
 Button (win , text='BILL', command=new window).grid(row=14,column=2)
```

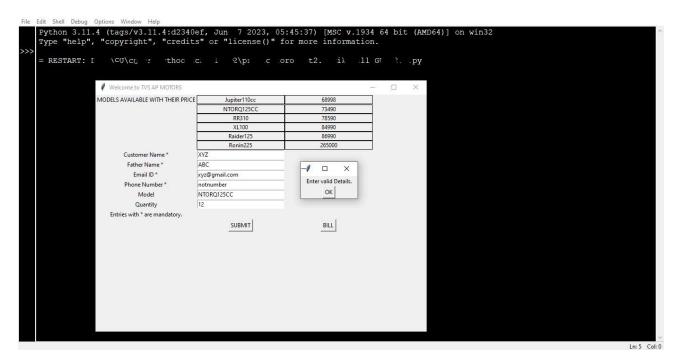
mainloop()

Ln: 1 Col: 0

# **OUTPUT**

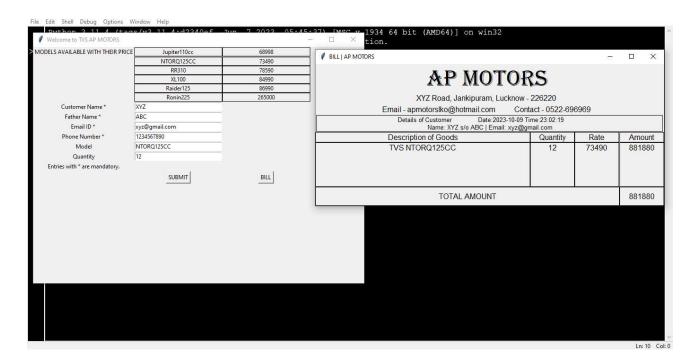


#### **Entry Form (by Tkinter)**



**Error Window** 

Data stored in CSV file



**Bill with Date & Time** 

## **BIBLIOGRAPHY**

- <a href="https://www.google.com/">https://www.google.com/</a>
- <a href="https://www.geeksforgeeks.org/python-gui-tkinter/">https://www.geeksforgeeks.org/python-gui-tkinter/</a>
- <a href="https://www.geeksforgeeks.org/python-pandas-dataframe/">https://www.geeksforgeeks.org/python-pandas-dataframe/</a>
- <a href="https://www.geeksforgeeks.org/python-datetime-module/">https://www.geeksforgeeks.org/python-datetime-module/</a>
   <a href="https://www.w3schools.in/python/gui-programming">https://www.w3schools.in/python/gui-programming</a>