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Project Report

Informatics Practices (065)

(Session: 2023-24)

Student Name : Ashutosh Prajapati

Class : XII

Section : A

Roll No. :

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.

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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

TEXT:

```
# 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','NTORO125CC','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(ro
    w=i+1,column=1,columnspan=1)
    Label(win,text=mdlsprice[i],borderwidth=1,relief='solid',width=26).grid(ro
    w=i+1,column=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(),'E
      mail':emailid.get(),'Phone':int(phone.get()),'Model':model.get(),'Price':m
      ddict[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:{}
    Name: {} s/o {} | Email:
    {}'.format(datetime.now().date(),datetime.now().strftime("%H:%M:%S"),c
    ustomername.get(),fathername.get(),emailid.get()),font=('Arial',10),borderw
    idth=1,relief='solid',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=10).grid(row=5.column=2)
    Label(billwin,text='Rate',font=('Arial',12),borderwidth=1,relief='solid',widt
    h=10).grid(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,relief='solid',anchor=N).grid(row=6,column=1) Label(billwin,text='{}'.format(qty.get()),font=('Arial',12),borderwidth=1,relief='solid',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),borderw idth=1,relief='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),borderw idth=1,relief='solid',height=2,width=10,anchor=CENTER).grid(row=7,colu mn=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()

IDLE:

```
import pandas as pd
  from tkinter import * #type: ignore
import tkinter as tk
5 from datetime import datetime
 # 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)
  customername = StringVar() # variable to store data entered.
 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) # models available
            Label(win,text=mdlsavail[i],borderwidth=1,relief='solid',width=26).grid(row=i+1,column=1,columnspan=1)
```

```
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) # phone
Label(win,text="Model").grid(row=1,column=0) # phone
Label(win,text="Model").grid(row=1).grid(row=1) # phone
Label(win,text="Wodel").grid(row=12,column=0) # phone
Label(win,text="Gaunnity").grid(row=12,column=0) # gty
Label(win,text="Gaunnity").grid(row=12,column=0) # gty
Label(win,text="Gaunnity").grid(row=12,column=1) # customer entry
Label(win, width=30,textvariable=customername).grid(row=7,column=1) # father entry
Label(win, width=30,textvariable=emailid).grid(row=9,column=1) # father entry
Label(win, width=30,textvariable=emailid).grid(row=9,column=1) # phone entry
Label(win, width=30,textvariable=model).grid(row=10,column=1) # phone entry
Label(win, width=30,textvariable=model).grid(row=10,column=1) # model entry
Label(win, width=30,textvariable=gaunnity).grid(row=10,column=1) # gty entry

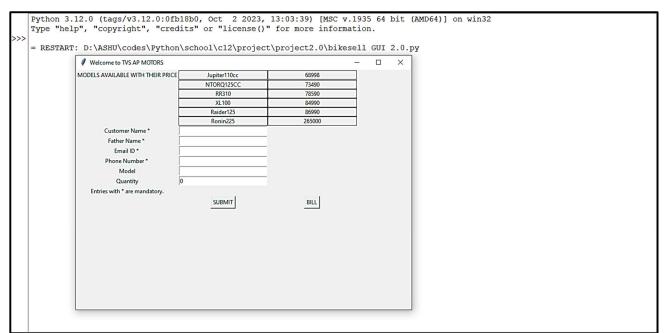
Label(win,text="Gaunnity").grid(row=10,column=1) # gty entr
```

```
df.to_csv("D:\\ASHU\\codes\\Python\\school\\cl2\\project\\project2.0\\bikepurchaseDB.csv", index=False)
print(df)

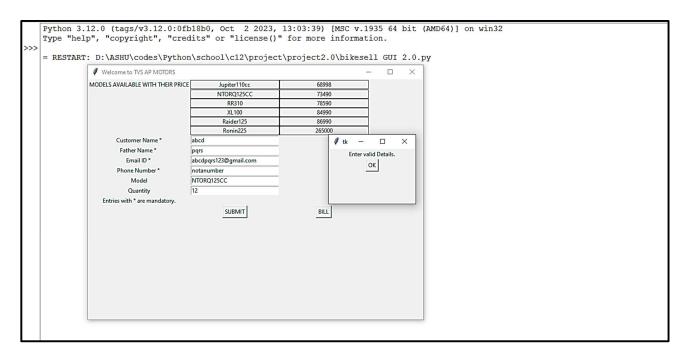
# vals = [customername, fathername, emailid, phone, company, model, price]
# vals = [customername, fathername, emailid, phone, company, model, price]
# hew window

# def new window():
# billwin = Toplevel(win)
# billwin.columnconfigure(index=5, weight=1)
# billwin.columnconfigure(index=7, weight=1)
# billwin.title("BilL | AP MOTORS', font=("Algerian", 36)).grid(row=1, column=1, columnspan=3)
# Label(billwin, text=' AP MOTORS', font=("Algerian", 36)).grid(row=2, 26220", font="Arial").grid(row=2, column=1, columnspan=1, columnspan=1, columnspan=1, columnspan=2, column=1, columnspan=3, column=1, column=1, columnspan=3, column=1, columnspan=3, column=1, columnspan=3, column=1, columnspan=3, column=1, columnspan=3, column=1, column=1, columnspan=3, column=1, column=1,
```

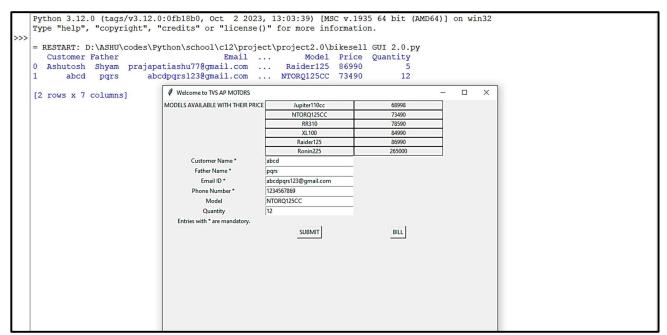
OUTPUT



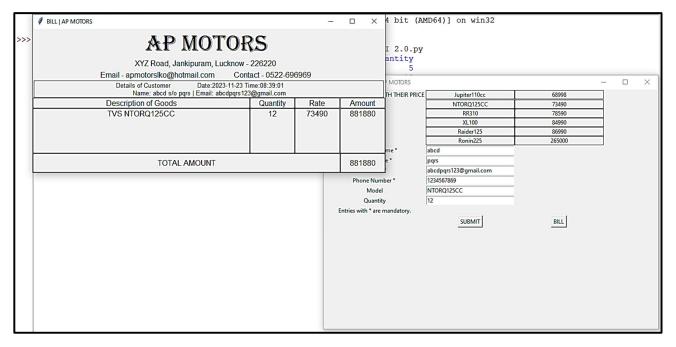
Entry Form (by Tkinter)



Error Window



Data stored in CSV file



Bill with Date & Time

SOFTWARE REVIEW FORM

Name of Reviewer: Atharv Srivastava	Name of Developer: Ashutosh Prajapati
Profession/Education Level: Btech.	Class: 12
Age:19	Section: A

Language used in the project: **Python**

Topic of project	Bike Showroom Management System
Your views about it	Simple, Easy to use, No Errors and a good GUI
Was the program easy to use?	Yes
Any flaws?	No
What could have made it better?	Option to search for past purchases
Is the language used clearly indicated?	Yes
Was the developer able to solve your queries?	Yes
Rate the software	А

Sign of Neviewer	•••••
Sign of Teacher:	

BIBLIOGRAPHY

- Informatics Practices (NCERT) Class 12
- Informatics Practices (Sumita Arora) Class 12
- https://www.google.com/
- https://www.geeksforgeeks.org/python-gui-tkinter/
- https://www.geeksforgeeks.org/python-pandas-dataframe/
- https://www.geeksforgeeks.org/python-datetime-module/
 https://www.w3schools.in/python/gui-programming