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INTRODUCTION TO PYTHON

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991. Python is a open source programming language that can be used in web programming, data science, artificial intelligence and many scientific applications. Learning python allows the programmer to focus on solving problems rather than focusing syntax. It's relative size and simplified syntax give it an edge over languages like java and c++ yet the abundance of libraries gives it the power needed to accomplish great things.

Features

- Easy to code - Python is a high-level programming language. Python is very easy to learn the language as compared to other languages like C, C#, Javascript, Java, etc. It is very easy to code in python language and anybody can learn python basics in a few hours or days. It is also a developer-friendly language.
- Free and Open Source - Python language is freely available at the official website and you can download it from the given download link below click on the Download Python keyword. Since it is open-source, this means that source code is also available to the public. So you can download it as, use it as well as share it.
- Object-Oriented Language - One of the key features of python is Object-Oriented programming. Python supports object-oriented language and concepts of classes, objects encapsulation, etc.

INTRODUCTION TO MYSQL

Database Management is the most important part when you have humungous data around you. MySQL is one of the most famous Relational Database to store & handle our data.

Features

- Ease of Management – The software very easily gets downloaded and also uses an event scheduler to schedule the tasks automatically.
- Comprehensive Application Development – MySQL has plugin libraries to embed the database into any application. It also supports stored procedures, triggers, functions, views and many more for application development.
- High Performance – Provides fast load utilities with distinct memory caches and table index partitioning. It reduces licensing costs and hardware expenditures.
- Open Source – This RDBMS can be used on any platform and offers support for open source and enterprise edition.
- Secure Data Protection – MySQL supports powerful mechanisms to ensure that only authorized users have access to the databases.
- High Availability – MySQL can run high-speed master/slave replication configurations and it offers cluster servers.
- Scalability & Flexibility – With MySQL you can run deeply embedded applications and create data warehouses holding a humongous amount of data.

INTRODUCTION TO OOPs CONCEPT IN PYTHON

Object-oriented programming (OOP) is a method of structuring a program by bundling related properties and behaviors into individual objects. Object-oriented programming is a programming paradigm that provides a means of structuring programs so that properties and behaviors are bundled into individual objects.

The key takeaway is that objects are at the center of object-oriented programming in Python, not only representing the data, as in procedural programming, but in the overall structure of the program as well.

ADVANTAGES OF OOPs

Moving to the advantage of OOP, we would like to say that there are many as this is one of the core development approaches which is widely accepted.

- **Re-usability** – It means reusing some facilities rather than building it again and again. This is done with the use of a class.
- **Data Redundancy** – This is a condition created at the place of data storage where the same piece of data is held in two separate places. So the data redundancy is one of the greatest advantage of OOP.
- **Problem Solving** – Decomposing a complex problem into smaller chunks or discrete components is a good practice. OOP is specialized in this behavior, as it breaks down your software code into bite-sized – one object at a time.
- **Security** – With the use of data hiding and abstraction mechanism, we are filtering out limited data to exposure which means we are maintaining security and providing necessary data to view.

INTRODUCTION

CMS is a web-based Courier Management System which supports the high accessibility of courier services to the customer. The system is being used for day to day actions such as maintain employee details, booking a courier, maintain hub details, maintain corporation details, process data of employees and many other things.

The main aim of this project is to computerize the maintenance of courier management.

The objective of the project is to deliver an efficient Courier Management System whose main functionality apart from calculating the courier Bill include predicting the time required to reach the destination

There are several Advantages of using the Courier management system in a business setting are:

1. Cost savings:

This system manages the human and other resources in such a way that cost of delivery of each consignment decreases and help the company to get more profit.

2. Increased efficiency:

The courier management system allows the process of delivery of consignment faster than before. This also increases the customer satisfaction level.

3. Data security:

By supplementary with the restricted user rights, company managers can allow many employees to contribute in courier management.

They can process the consignment and update the status only with the authenticated process to make user data secure which is our main concern in this era.

PACKAGES AND MODULES USED

1. Tkinter

This framework provides Python users with a simple way to create GUI elements using the widgets found in the Tk toolkit.

2. Mysql.connector

It provides driver support for connecting to MySQL from Python applications . No additional Python modules or MySQL client libraries are required.

3. Datetime

Its a combination of date and time along with the attributes year, month, day, hour, minute, second, microsecond.

4. Timedelta

A duration expressing the difference between two date or time.

DATABASE AND TABLE NAMES USED

1. Database

- Courier

2. Tables

- Details
- Result

SOURCE CODE

```
import tkinter as tk
from tkinter import *
import mysql.connector

dat=mysql.connector.connect(host='localhost',user='root',password='password',data
base='courier')
cur=dat.cursor()
query="create table if not exists details(Name varchar(24),From_address
      varchar(50),Sender_address varchar(50),Destination char(19),Courier_type
      varchar(20),Courier_weight int(15),Contact_number bigint(11) NOT
      NULL PRIMARY KEY,Pincode int(7))"
cur.execute(query)
tab="create table if not exists result(Name varchar(24),Contact_number bigint(11)
      NOT NULL PRIMARY KEY,Entry_date date,Delivery_date
      date,Delivery_charge decimal(5))"
cur.execute(tab)

windo=Tk()
windo.minsize(1500,800)
windo.configure(bg="grey")

Label(windo,text="COURIER SERVICE",bg="grey",fg="black",font=("Algerian"
      ,90)).place(x=280,y=250)
Label(windo,text="Near you", bg="grey",fg="black",font=("Prompt",30)).place
      (x=590,y=350)
Label(windo.title("COURIER SERVICE"))

def update():
    from datetime import date
    l=[]
    n=date.today()
    print(n)
    a="Select Delivery_date from result"
```

```

cur.execute(a)
h=cur.fetchall()
l.append(h)
for i in l:
    kal=int(input("Which is the row number of your data???"))
    m=h[kal-1][0]
    print(m)
    if m<n or m==n:
        que="Update result set Status='Delivered'"
        cur.execute(que)
        dat.commit()
def sam():
    from datetime import date
    today=date.today()
    return today
def enter():
    z=input("\nNAME      : ")
    b=input("FROM ADDRESS  : ")
    k=input("\t      : ")
    c=input("SENDER ADDRESS : ")
    p=input("\t      : ")
    d=input("DESTINATION   : ")
    e=input("COURIER TYPE   : ")
    f=input("COURIER WEIGHT : ")
    h=input("CONTACT NUMBER : ")
    i=input("PINCODE       : ")
    man="insert into details values('{}','{}','{}','{}','{}','{}','{}','{}').forat
        (z,b+k,c+p,d,e,f,h,i)
    cur.execute(man)
    dat.commit()
    print("\nWE CHARGE Rs.50/Km")
    n=int(input("What is the distance of the destination from our office??? "))
    san=n*50
    cun=sam()
    query="insert into result(Name,Contact_number,Entry_date,Delivery_date,
    Delivery_charge) values('{}','{}','{}','{}','{}').format(z,h,cun,cun,san)

```

```

cur.execute(query)
dat.commit()
from datetime import date,timedelta
if n<25:
    n=date.today()+timedelta(2)
    ani="update result set Delivery_date='{ }' where
        Contact_number={ }".format(n,h)
    cur.execute(ani)
    dat.commit()
    print("\n=====")
    print("YOUR COURIER WILL BE DELIVERED SOON!!!!")
    print("=====\n")
elif n==25:
    sack=date.today()+timedelta(4)
    anis="update result set Delivery_date='{ }' where
        Contact_number={ }".format(sack,h)
    cur.execute(anis)
    dat.commit()
    print("\n=====")
    print("YOUR COURIER WILL BE DELIVERED SOON!!!!")
    print("=====\n")
elif n==50:
    nac=date.today()+timedelta(5)
    anim="update result set Delivery_date='{ }' where
        Contact_number={ }".format(nac,h)
    cur.execute(anim)
    dat.commit()
    print("\n=====")
    print("YOUR COURIER WILL BE DELIVERED SOON!!!!")
    print("=====\n")
elif n>25 and n<50:
    sack=date.today()+timedelta(3)
    anis="update result set Delivery_date='{ }' where
        Contact_number={ }".format(sack,h)
    cur.execute(anis)
    dat.commit()

```

```
print("\n=====")
print("YOUR COURIER WILL BE DELIVERED SOON!!!!")
print("=====\n")
else:
    print("Sorry,we don't deliver more than 50 kilometers")
```

```
def pink(windo):
    windo.destroy()
```

```
def a_w():
    windo=Tk()
    windo.minsize(1500,800)
    windo.configure(bg="grey")
    def jam(windo):
        pink(windo)
        def all():
            enter()
            z=input("\nDo you want to continue???? (yes or no) ")
            if z=="yes":
                return
            else:
                exit()
        all()
        a_w()
    def ill(windo):
        def display():
            p=[]
            c=False
            mar=int(input("\nEnter your contact number : "))
            nan="Select*from details where Contact_number={ }".format(mar)
            cur.execute(nan)
            i=cur.fetchall()
            p.append(i)
            for row in p:
                if p[0]==[]:
                    c=True
```

```

if c==True:
    print("Sorry you have typed wrong number. Please try again")
else:
    print("\t\t\t\t\t\t\t\t\t\t#####DETAILS#####\n")
    print("\n%8s"% "NAME", "%22s"% "FROM ADDRESS", "%22s"% "SENDER ADDRESS", "%20s"% "DESTINATION", "%17s"% "COURIER TYPE", "%19s"% "COURIER WEIGHT", "%18s"% "CONTACT NUMBER", "%13s"% "PINCODE")
    print("      ****              *****               *****
          *****             *****             *****
          *****             *****")
    for row in i:
        print("\n%9s"%row[0], "%24s"%row[1], "%22s"%row[2], "%16s"%row[3], "%16s"%row[4], "%16s"%row[5], "%21s"%row[6], "%15s"%row[7] )
    z=input("\nDo you want to continue???? (yes or no) ")
    if z=="yes":
        return
    else:
        exit()
pink(windo)
display()
a_w()
def war(windo):
    def dis():
        l=[]
        d=False
        mar=int(input("\nEnter your contact number : "))
        nan="Select Name,Delivery_date,Delivery_charge from result where Contact_number={ }".format(mar)
        cur.execute(nan)
        p=cur.fetchall()
        l.append(p)
        for row in l:
            if l[0]==[]:

```

```

        d=True
    if d==True:
        print("Sorry you have typed wrong number. Please try again")
    else:
        print("\n%8s"% "NAME", "%20s"% "DELIVERY
            DATE", "%21s"% "DELIVERY CHARGE")
        print("%9s"% "*****", "%20s"% "*****", "%21s"% "*****
            *****")
        for i in l:
            print("\n%9s"%p[0][0], "%17s"%p[0][1], "%16s"%p[0][2])
        z=input("\nDo you want to continue???? (yes or no) ")
        if z=="yes":
            return
        else:
            exit()
    pink(windo)
    dis()
    a_w()
def anis(windo):
    def order():
        she=[]
        y=False
        cam=int(input("\nEnter your phone number : "))
        update()
        map="Select details.Name,Courier_type,result.Contact_number,Status
            from details,result where details.Name=result.Name and
            result.Contact_number={ }".format(cam)
        cur.execute(map)
        ml=cur.fetchall()
        she.append(ml)
        for row in she:
            if she[0]==[]:
                y=True
        if y==True:
            print("Sorry you have typed wrong number. Please try again")
        else:

```

```

print("\n%10s"% "NAME", "%20s"% "COURIER
      TYPE", "%18s"% "CONTACT NUMBER", "%15s"% "STATUS")
print("      ***      *****      *****      *****")
for row in ml:
    print("\n%11s"%row[0], "%16s"%row[1], "%19s"%row[2], "%21s"
          %row[3])
z=input("\nDo you want to continue???? (yes or no) ")
if z=="yes":
    return
else:
    exit()
pink(windo)
order()
a_w()
def ant(windo):
    def delete():
        car=int(input("\nEnter your phone number : "))
        pan="Delete from details where Contact_number={ }".format(car)
        ta="Delete from result where Contact_number={ }".format(car)
        cur.execute(pan)
        dat.commit()
        cur.execute(ta)
        dat.commit()
        print("\n=====")
        print("YOUR ORDER HAS BEEN CANCELLED")
        print("=====\n")
        z=input("\nDo you want to continue???? (yes or no) ")
        if z=="yes":
            return
        else:
            exit()
    pink(windo)
    delete()
    a_w()
def sara(windo):
    windo.destroy()

```

```

def hat():
    window=Tk()
    window.minsize(1500,800)
    window.configure(bg="grey")
    label_2=Label(window,text="The expert team of messengers, couriers and
        delivery drivers at Courier service can deliver any\n package of any
        size within 50 kilometres. \n\nPeople placing an order with our team
        in can rest assured that their deliveries are not only made on \ntime
        but arrive safely. \n\nOur company has had an experienced team of
        delivery professionals who understand the needs of our \ncustomers
        and always follow through on every single delivery. \n\nOur main
        goal is to streamline every single delivery and rush courier service
        that we offer by \noptimizing delivery routes and making use of our
        fleet of vehicles to get your package delivered in the \nquickest way
        possible. \n\nWe also have cargo vans, and box trucks in our fleet of
        vehicles which allows us to quickly delivery \npackages that can
        weigh up to 2 tons. \n\nOur award winning customer service and
        trained delivery drivers make getting your package to it's
        \ndestination not only easy but gives you peace of mind that it will
        arrive on time.",font=("Footlight MT
        Light",27),bd=2,relief="solid",anchor= N)
    label_2.pack()
    def pie(window):
        window.destroy()

button=Button(window,text="Back<<<",bg="black",fg="red",font=("Blackadder
ITC",35),command=lambda:pie(window)).place(x=1300,y=700)
    a_w()
    def pink1(windo):
        windo.destroy()
        hat()

button=Button(windo,text="Login",bg="LightPink1",fg="black",font=("Blackadde
r ITC",35),command=lambda:jam(windo)).place(x=670,y=60)

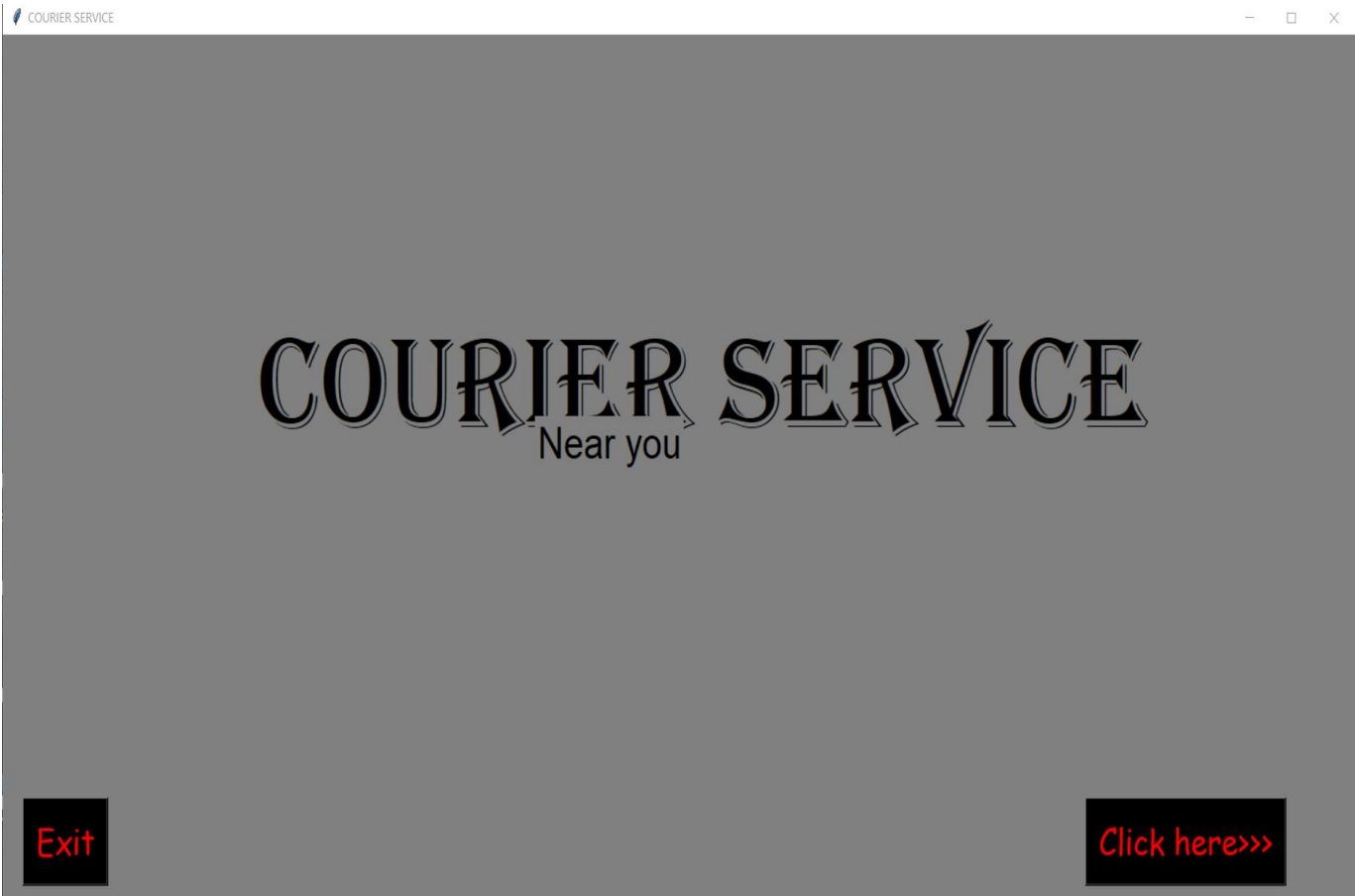
```

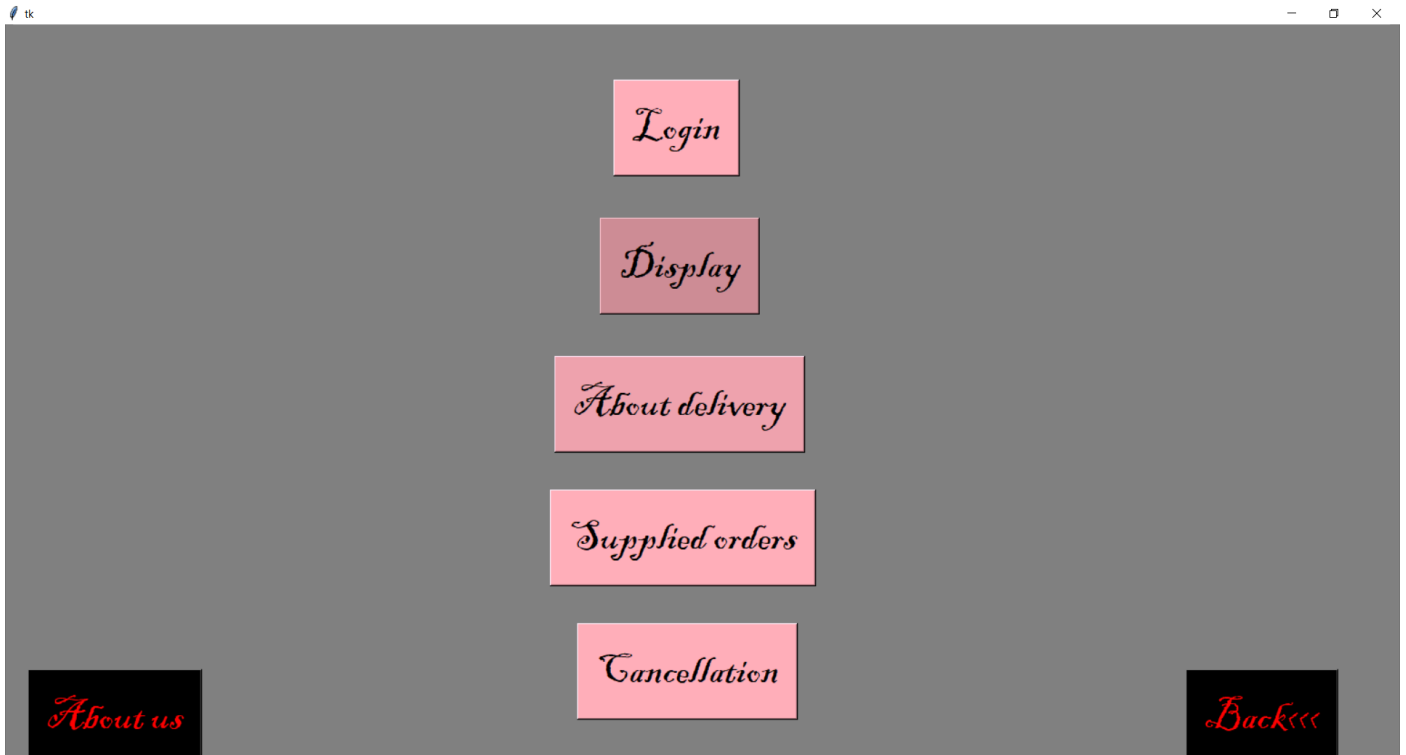


```
button=Button(windo,text="Display",bg="Lightpink3",fg="black",font=("Blackadder ITC",35),command=lambda:ill(windo)).place(x=655,y=210)
button=Button(windo,text="About delivery",bg="LightPink2",fg="black",font=("Blackadder ITC",35),command=lambda:war(windo)).place(x=605,y=360)
button=Button(windo,text="Supplied orders",bg="LightPink1",fg="black",font=("Blackadder ITC",35),command=lambda:anis(windo)).place(x=600,y=505)
```

```
button=Button(windo,text="Cancellation",bg="LightPink1",fg="black",font=("Blackadder ITC",35),command=lambda:ant(windo)).place(x=630,y=650)
button=Button(windo,text="Back<<<",bg="black",fg="red",font=("Blackadder ITC",35),command=lambda:sara(windo)).place(x=1300,y=700)
button=Button(windo,text="About us",bg="black",fg="red",font=("Blackadder ITC",35),command=lambda:pink1(windo)).place(x=25,y=700)
button=Button(windo,text="Click here>>>",bg="black",fg="red",font=("Comic Sans MS",25),command=lambda:[pink(windo),a_w()]).place(x=1200,y=700)
button=Button(windo,text="Exit",bg="black",fg="red",font=("Comic Sans MS",25),command=lambda:pink(windo)).place(x=22,y=700)
```

OUTPUT



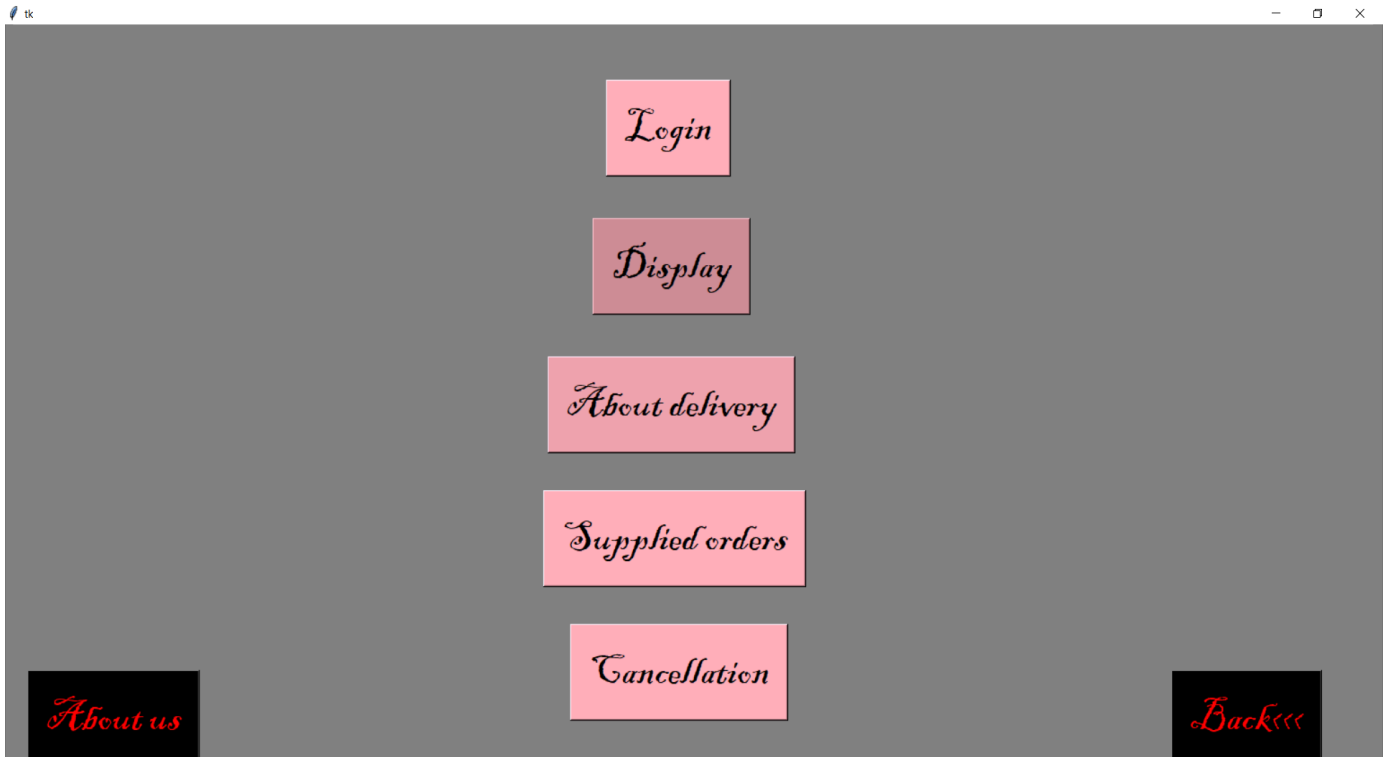


```
*Python 3.9.0 Shell*
File Edit Shell Debug Options Window Help
Python 3.9.0 (tags/v3.9.0:9cf6752, Oct 5 2020, 15:34:40) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Lenovo\Downloads\dtabas1.py =====
>>>
NAME : Anna Mathew
FROM ADDRESS : Ariparambil (h)
SENDER ADDRESS : Mookannoor p.o
DESTINATION : Thuravoor
COURIER TYPE : Utensils
COURIER WEIGHT : 70
CONTACT NUMBER : 9495866678
PINCODE : 654286

WE CHARGE Rs.50/Km
What is the distance of the destination from our office??? 43

=====
YOUR COURIER WILL BE DELIVERED SOON!!!!
=====

Do you want to continue???? (yes or no) |
```



Do you want to continue???? (yes or no) yes

Enter your contact number : 9495866678

#####DETAILS#####

NAME ****	FROM ADDRESS *****	SENDER ADDRESS *****	DESTINATION *****	COURIER TYPE *****	COURIER WEIGHT *****	CONTACT NUMBER *****	PINCODE *****	
Anna Mathew Aripambil (h)	Mookannoor p.o	Manjooran (h)	Thuravoor p.o	Thuravoor	Utensils	70	9495866678	654286

Do you want to continue???? (yes or no) |

Login

Display

About delivery

Supplied orders

Cancellation

About us

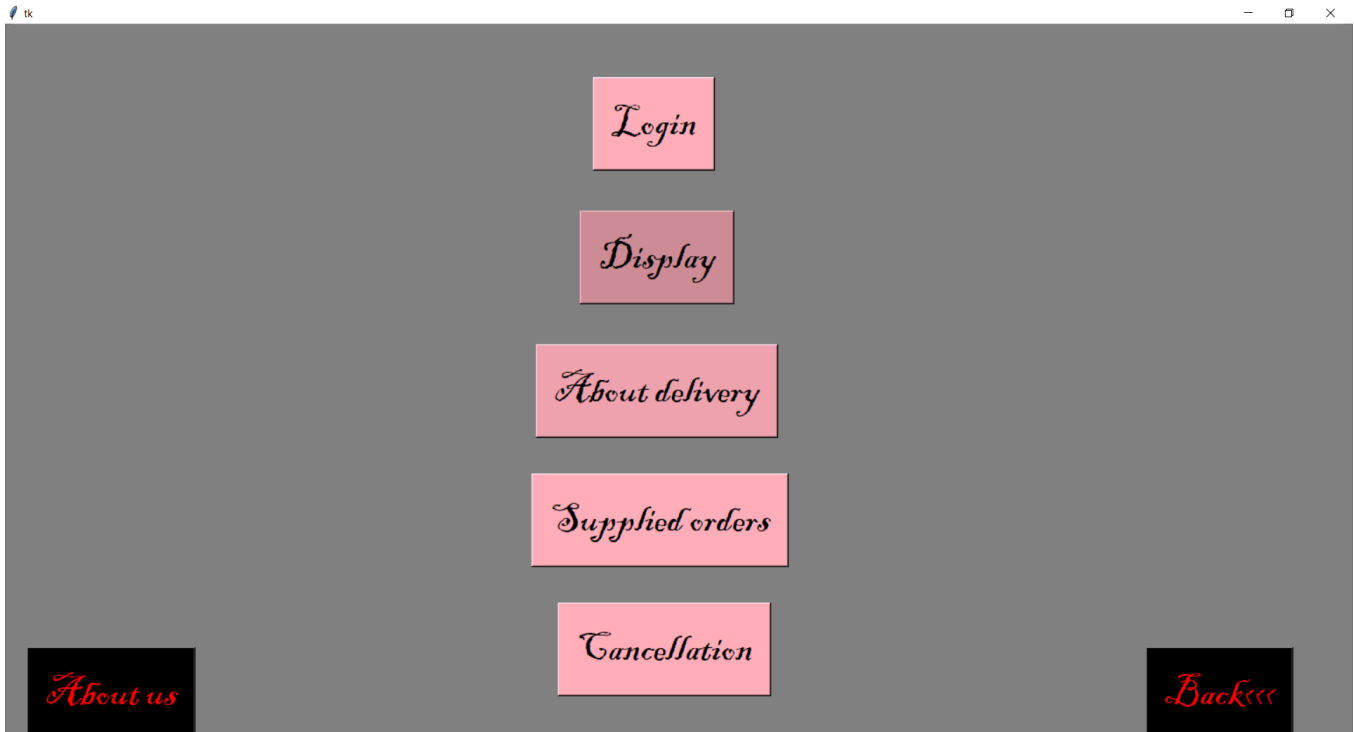
Back<<<

Do you want to continue???? (yes or no) yes

Enter your contact number : 9495866678

NAME *****	DELIVERY DATE *****	DELIVERY CHARGE *****
Anna Mathew	2021-03-15	2150

Do you want to continue???? (yes or no) |



Do you want to continue???? (yes or no) yes

Enter your phone number : 9495866678

2021-03-12

Which is the row number of your data???6

2021-03-15

NAME ****	COURIER TYPE *****	CONTACT NUMBER *****	STATUS *****
Anna Mathew	Utensils	9495866678	Not Delivered

Do you want to continue???? (yes or no) |

Login

Display

About delivery

Supplied orders

Cancellation

About us

Back<<<

Do you want to continue???? (yes or no) yes

Enter your phone number : 9495866678

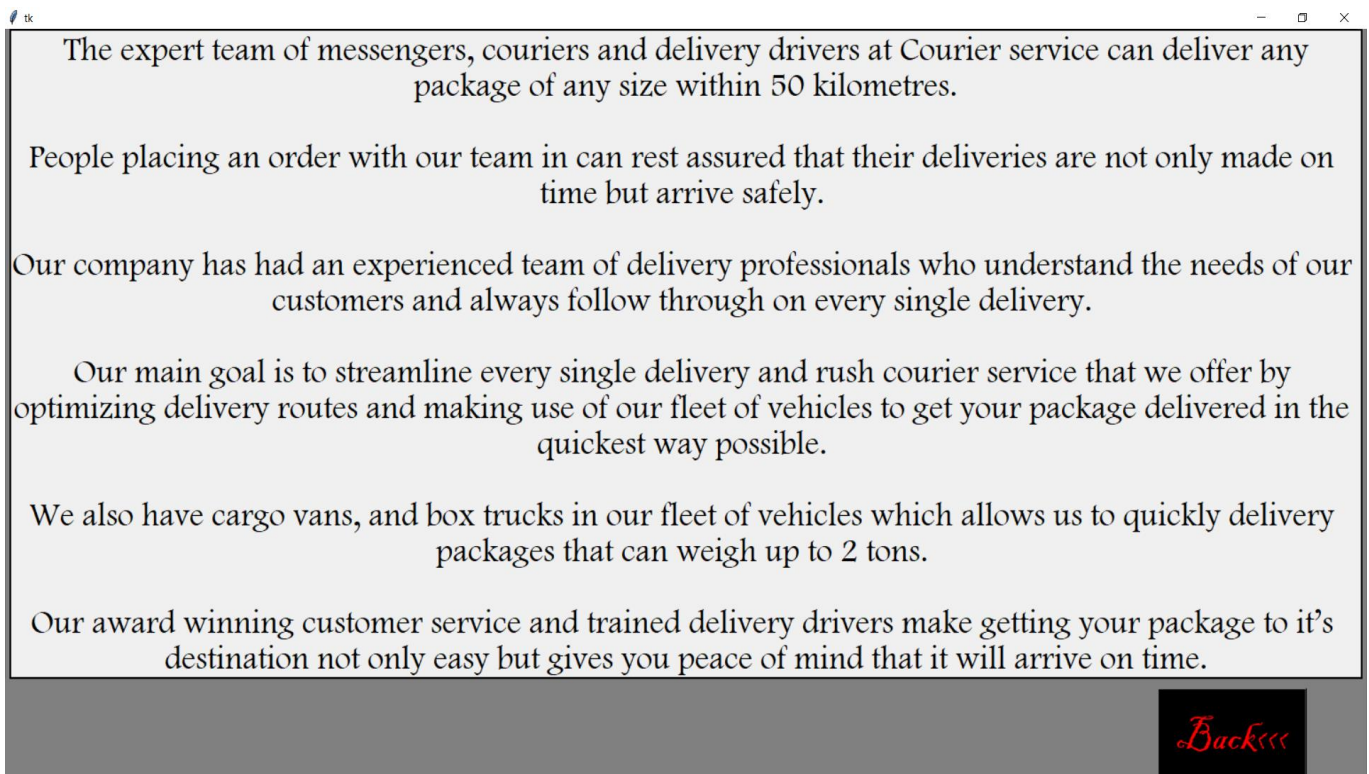
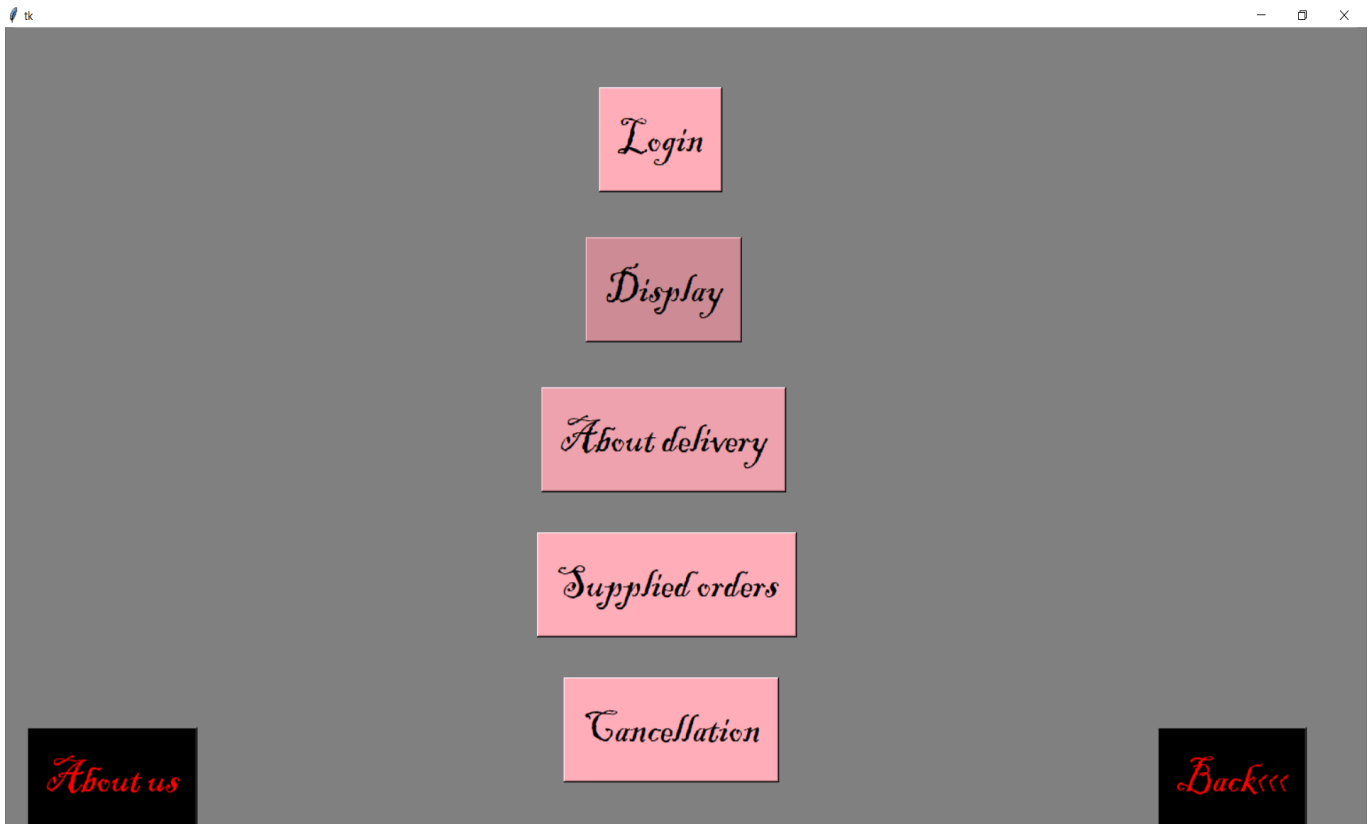
=====

YOUR ORDER HAS BEEN CANCELLED

=====

Do you want to continue???? (yes or no) |





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