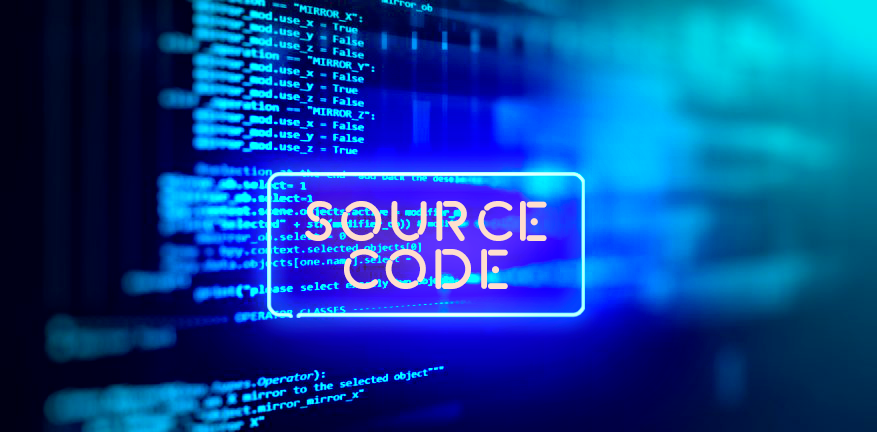
******

***Source Code***

>>>Reg\_ppdms.py

#One tiime registration purpose.....

#Creating the database adding tables

#Adding ownership details, etc

#importing Required modules from library

import mysql.connector as mysql # for connecting python with sql

import stdiomask as mask # for hiding password

#intro

print(

'''

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WELCOME TO PETROLEUM PUMP DATA SERVER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

'''

)

#Sql connect

mydb = mysql.connect(host='localhost',

password=mask.getpass(prompt='Enter the Database Password: ',mask='\*'),

user='root')

if(mydb):

print("connection successfull")

# To avoid error, mixing a old database with new.

# Delete the old to create a new one, if one already exists

try:

#creating the database

cursor=mydb.cursor()

cursor.execute('CREATE DATABASE ppdms;')

mydb.commit()

except mysql.errors.DatabaseError:

cursor=mydb.cursor()

cursor.execute('drop database ppdms;')

mydb.commit()

#creating the database

cursor=mydb.cursor()

cursor.execute('CREATE DATABASE ppdms;')

mydb.commit()

#opening the database

cursor=mydb.cursor()

cursor.execute('USE PPDMS;')

mydb.commit()

#creating table for employee details

print('creating table for employee details')

cursor=mydb.cursor()

cursor.execute('''CREATE TABLE emp

( iD char(6) UNIQUE NOT NULL,

NAME VARCHAR(50) NOT NULL,

Age integer(2) not null,

GEN CHAR(6) not null,

DOB DATE not null,

PH varChar (20) UNIQUE not null,

MAIL VARCHAR(50) UNIQUE not null,

acctyp varchar(10) not null);''')

mydb.commit()

print('Success...')

print()

#creating table for passwords

cursor=mydb.cursor()

cursor.execute('''create table uid

(iD char(6) UNIQUE NOT NULL,

username varchar(25) unique not null,

password varchar(25) not null,

acctyp varchar(10) not null,

Status varchar(20) not null)''')

mydb.commit()

#creating tables for stocks

print('Adding tables for stocks')

cursor=mydb.cursor()

cursor.execute('''create table stock

(iD char(6) UNIQUE NOT NULL,

name varchar(35) not null,

qty integer(10) not null,

price decimal(8,2) not null) ''')

mydb.commit()

print('Success...')

print()

#creating tabes for bills

print('Adding tables for bills')

cursor=mydb.cursor()

cursor.execute('''CREATE TABLE bills

( bill\_no int(20) UNIQUE NOT NULL,

Atnd\_id CHAR(5) NOT NULL,

vehi\_no Char(10),

DATE date not null,

Time Time not null,

product\_code varchar(200) not null,

products varchar(500) not null,

price\_unit varchar(200) not null,

qty varchar(200) not null,

amount varchar(200) not null,

net\_pay decimal(10,2) not null);''')

mydb.commit()

print('Success...')

print()

#creating table for tax

print('Adding tables for Taxes')

cursor=mydb.cursor()

cursor.execute('''CREATE TABLE tax

(tax\_typ char(15) UNIQUE NOT NULL,

perctage integer(2) not null );''')

mydb.commit()

print('Success...')

#userdefined function for updating reords

def adddetails(uid,name):

cursor=mydb.cursor()

sql='insert into uid values(%s,%s,%s,%s,%s)'

cursor.execute(sql,uid)

mydb.commit()

cursor=mydb.cursor()

sql='insert into emp values(%s,%s,%s,%s,%s,%s,%s,%s)'

cursor.execute(sql,name)

mydb.commit()

def stockdb(L):

i=0

while i<len(L):

sql='insert into stock values(%s,%s,%s,%s)'

cursor=mydb.cursor()

cursor.execute(sql,L[i])

mydb.commit()

i+=1

def taxdb(L):

i=0

while i<len(L):

cursor=mydb.cursor()

sql='insert into tax values(%s,%s)'

cursor.execute(sql,L[i])

mydb.commit()

i+=1

#registration goes on....

print(

'''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Registration

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Owner Details:-

~~~~~~~~~~~~~

'''

)

#gendral details

while True:

name=input(' Name :')

age=input(' Age :')

sex=input(' Gender :')

dob=input(' Date of Birth(yyyy-mm-dd) :')

phone=input(' Phone no :')

mail=input(' Mail id :')

iD=name[0]+'8055'

print('Please check the entered details... Make sure the details are correct...')

Val2=iD,name,age,sex,dob,phone,mail,'Owner'

print('Name:',name,'\n Age:',age,'\n Gender',sex,'\n DoB(yyyy-mm-dd):',dob,'\n Ph:',phone,'\n mail:',mail,'\n')

ch=input('Are You Sure To Contiue? (Y/N) :')

if ch.isalpha():

if ch.upper() in ['Y','YES']:

print(' Record accepted....')

print('Processing...')

break

else:

print('Enter the values again.....')

#login details

while True:

userid=input( 'Username :')

while True:

password=mask.getpass(prompt=' Password :',mask='\*')

repassword=mask.getpass(prompt=' Re-Password :',mask='\*')

if password==repassword:

break

else:

print('Password did not match... try again')

pass

Val1=iD,userid,password,'Owner','ACTIVE'

ch=input('Are You Sure To Contiue? (Y/N) :')

if ch.isalpha():

if ch.upper() in ['Y','YES']:

print(' Record accepted....')

print('Processing...')

break

else:

print('Enter the values again.....')

updating record

adddetails(Val1,Val2)

print('Record added')

print()

#done with owner details

#Create sql table for stock management

print('creating stocks...')

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Stock

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

list=[]

while True:

itm\_code=input('Ener the Product code:')

itm\_name=input('Product Name:')

base\_qty=int(input('Qty (ltr/bottles) :'))

price=float(input('Enter the Price per Qty :'))

t=(itm\_code,itm\_name,base\_qty,price)

list.append(t)

ch=input('Do you want to add more ? (Y/N) :')

if ch.upper() in ['N','NO']:

break

#adding the records to database

stockdb(list)

print('Record added Successfully!..')

print()

print('Please wait...')

#Adding tax

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Taxes

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

list=[]

while True:

tax\_typ=input('Ener the Tax code:')

tax\_per=int(input('Tax percentage(%) :'))

t=(tax\_typ,tax\_per)

list.append(t)

ch=input('Do you want to add more ? (Y/N) :')

if ch.upper() in ['N','NO']:

break

taxdb(list)

print('Record added')

print()

#success

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Success

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Success…

Registration Completed…

Press any key to exit….

''' )

input()

#closing sql

cursor.close()

mydb.close()

>>> main.py

#importing Required modules from library

import os # for printer hard copies

import mysql.connector as mysql # for connecting python with sql

import stdiomask as mask # for hiding password

import datetime # for date and time

from prettytable import PrettyTable # for tables

import matplotlib.pyplot as plt # for graphs

from random import randint as rint # for id generation

from datetime import timedelta # helps with selecting range of dates

#connecting python and sql using mysql.connector

try :

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

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''')

mydb = mysql.connect(host='localhost',

password=mask.getpass(prompt='Enter the Database Password: ',mask='\*'),

user='root',

database="ppdms")

except mysql.Error: #error message if program registration not done

print(

'''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Error

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Error: Registration Not Done, Register before you use….

(Open reg\_ppdms.py to Register)

Exiting….

'''

)

input('\t Press Any Key To Exit…')

exit()

#User defined funtion goes here

def \_credits(): #Developers

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Alagar Public School

---------------------------------------------------------------------------------------

Name: DHAKSHIN A.V. (Mail: avdhakshin1354@gmail.com)

Name: Paul Samuel D

Name: Viswa M

'''

)

input('Enter any Key to move back to menu...')

return

def \_admins(): # Admin contacts for workers

sql='Select Name,ph,mail from emp where acctyp=\'Owner\' or acctyp=\'Admin\''

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

print(

'''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Contact Admin

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'''

)

table=PrettyTable (['Name','Phone','Mail'])

for i in data:

table.add\_row([str(i[0]),str(i[1]),str(i[2])])

print(table)

input('Enter any key to be back to menu...')

return

def accid(uid): #acc\_id getting

sql='select iD from uid where username=%s'

cursor=mydb.cursor()

cursor.execute(sql,(uid,))

data=cursor.fetchall()

acc\_id=data[0][0]

return acc\_id

def choicenum(ch): #Avoid error in selecting choice....

if ch.isdigit():

ch=int(ch)

return ch,False

else:

print('Enter a valid Choice...')

return ch,True

def Admlogverify(uid,pas): # verify the login

sql='Select password from uid where username= %s and (acctyp=\'Owner\' or acctyp=\'Admin\') and status=\'ACTIVE\''

cursor=mydb.cursor()

cursor.execute(sql,(uid,))

data=cursor.fetchall()

if data==[]:

print('Invalid Username or Username not found')

return False

elif data[0][0]==pas:

return True

else:

print('Invalid Password')

return False

def Adminlog(): #admin login

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Admin Login

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'''

)

i=4

while i>0:

admuserid=input('Enter the Username:')

admpass=mask.getpass(prompt='Enter the Password:',mask='\*')

print('Verifying…. \n Please Wait....')

if Admlogverify(admuserid,admpass):

print('```````````````````````````````')

print('Verified... (loading Admin Home)')

global acc\_id

acc\_id=accid(admuserid)

Admhome()

else:

print()

i-=1

print('Chance left:', i)

print('Chances Exhasted... try Later...')

Home()

def Checkemp(): # if no employee created..

sql='Select iD from uid where acctyp=\'Worker\' and status=\'ACTIVE\''

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

if data!=[]:

return

else:

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Employee Login

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At least add one Worker to Login… (Redirecting to Home…)

'''

)

Home()

def Emplogverify(empuserid,emppass): # verify the login

sql='Select password from uid where username=%s and status=\'ACTIVE\''

cursor=mydb.cursor()

cursor.execute(sql,(empuserid,))

data=cursor.fetchall()

if data==[]:

print('Invalid Username or Username not found')

return False

elif data[0][0]==emppass:

return True

else:

print('Invalid Password')

return False

def Emplogin(): #worker Login

Checkemp()

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Employee Login

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

'''

)

i=4

while i>0:

empuserid=input('Enter the Username:')

emppass=mask.getpass(prompt='Enter the Password:',mask='\*')

print('Verifying…. \n Please Wait....')

if Emplogverify(empuserid,emppass):

print('```````````````````````````````')

print('Verified... (loading Worker Home)')

global acc\_id

acc\_id=accid(empuserid)

Emphome()

else:

print()

i-=1

print('Chance left:', i)

print('Chances Exhasted... try Later...')

Home()

def checkiD(iD): #avoid repetation

sql='select iD from emp where iD= %s'

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

data=cursor.fetchall()

if data==[]:

return False

else:

return True

def iDgen(n): #generate iD

true=True

while true:

num1=rint(1,4)

num2=rint(250,999)

num=str(num1\*num2)

iD=n[0]+num

print(iD)

true=checkiD(iD)

return iD

def upemprecords(uid,name): # Add noob records to database

cursor=mydb.cursor()

sql='insert into uid values(%s,%s,%s,%s,%s)'

cursor.execute(sql,uid)

mydb.commit()

cursor=mydb.cursor()

sql='insert into emp values(%s,%s,%s,%s,%s,%s,%s,%s)'

cursor.execute(sql,name)

mydb.commit()

def Noobs(): # New Registration

print(

'''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Employee Registration

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

'''

)

#gendral details

while True:

name=input(' Name:')

iD=iDgen(name)

age=input(' Age:')

sex=input(' Gender:')

dob=input(' Date of Birth(yyyy-mm-dd) :')

phone=input(' Phone no:')

mail=input(' Mail id:')

acctype=input('(Admin/Worker) ? :')

print('Please check the entered details... Make sure the details are correct')

name=(iD,name,age,sex,dob,phone,mail,acctype)

print('Name:',name,'\n Age:',age,'\n Gender',sex,'\n DoB(yyyy-mm-dd):',dob,'\n Ph:',phone,'\n mail:',mail,'\n',acctype,'\n')

ch=input('Are You Sure To Contiue? (Y/N)')

if ch.isalpha():

if ch.upper() in ['Y','YES']:

print(' Record accepted....')

print('Processing')

break

else:

print('Enter the values again.....')

#login details

while True:

userid=input( 'Username:')

while True:

password=mask.getpass(prompt=' Password:',mask='\*')

repassword=mask.getpass(prompt=' Re-Password:',mask='\*')

if password==repassword:

break

else:

pass

uid=iD,userid,password,acctype,'INACTIVE'

ch=input('Are You Sure To Contiue? (Y/N)')

if ch.isalpha():

if ch.upper() in ['Y','Yes']:

print(' Record accepted....')

print('Processing')

break

else:

print('Enter the values again.....')

print()

print('Wait please Uploading records')

upemprecords(uid,name)

print()

print('Reacord added')

print('''

Success…

Wait Until You Get Approval from Admin…

Press any key to continue…

''')

input()

print('(Redirecting to home…)')

Home()

def allprod():

sql='select \* from stock'

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

All stock Records

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

table=PrettyTable (['Product\_code','Prduct\_name','Qty\_Avail(Ltr/bottles)','Price\_per\_unit'])

for i in data:

table.add\_row([i[0],i[1],i[2],i[3]])

print(table)

input('Enter any key to back to menu...')

return

def Qtyedit():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Update stock Records

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

iD=input('Enter the product code:')

print('Note: use -ve sign if you remove some qty of stock')

Qty=int(input('Enter the new stock:'))

sql='select qty from stock where iD= %s'

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

data=cursor.fetchall()

qty=data[0][0]

Qty+=qty

sql='update stock set qty= %s where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(Qty,iD))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def stockdb(L):

i=0

while i<len(L):

cursor=mydb.cursor()

sql='insert into stock values(%s,%s,%s,%s)'

cursor.execute(sql,L[i])

mydb.commit()

i+=1

def newprod():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

New stock Records

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''')

list=[]

while True:

itm\_code=input('Ener the Product code:')

itm\_name=input('Product Name:')

base\_qty=int(input('Qty (ltr/bottles) :'))

price=float(input('Enter the Price per Qty :'))

t=(itm\_code,itm\_name,base\_qty,price)

list.append(t)

ch=input('Do you want to add more ? (Y/N) :')

if ch.upper() in ['N','NO']:

break

#adding the records to database

stockdb(list)

print('Record added Successfully!..')

print()

print('Please wait...')

input('Enter any key to back to menu...')

return

def dropprod():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Drop stock Records

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''')

iD=input('Enter the Product iD:')

print('Are you sure to Delete the Product :',iD,end='')

ch=input('? (Y/N):')

if ch.upper() in ['Y','YES']:

sql='delete from stock where iD= %s'

cur=mydb.cursor()

cur.execute(sql,(iD,))

mydb.commit()

print('Successfully deleted...')

input('Enter any key to back to menu...')

return

else:

ch=input('Do you to be back to menu ? (Y/N):')

if ch.upper() in ['Y','YES']:

input('Enter any key to back to menu...')

return

else:

dropprod()

def newrate():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Update stock Records

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

iD=input('Enter the product code:')

p=float(input('Enter the new Price:'))

sql='update stock set price= %s where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(p,iD))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def Stock():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Manage Stocks

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1. Show the all Product

2. Update new Price

3. Edit Qty of Product

4. Add a new Product

5. Remove a Product

6. Back To Menu

''')

true=True

while true: #choice selection

choice=input('Enter your choice (1-6):')

choice,true=choicenum(choice)

if true==False:

if (choice>6 or choice<1):

print('Enter the choice between (1-6)')

true=True

else:

true=False

#Choice execution

if choice==1:

allprod()

Admhome()

elif choice==2:

newrate()

Admhome()

elif choice==3:

Qtyedit()

Admhome()

elif choice==4:

newprod()

Admhome()

elif choice==5:

dropprod()

elif choice==6:

Admhome()

def alltax():

sql='select \* from tax'

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

All TAX Records

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

table=PrettyTable (['Tax\_code','Percentage%'])

for i in data:

table.add\_row([i[0],i[1]])

print(table)

input('Enter any key to back to menu...')

return

def taxedit():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Update Tax Records

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

''')

iD=input('Enter the tax\_code:')

Qty=input('Enter the tax\_percentage:')

sql='update tax set perctage= %s where tax\_typ= %s '

cursor=mydb.cursor()

cursor.execute(sql,(Qty,iD))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def taxdb(L):

i=0

while i<len(L):

cursor=mydb.cursor()

sql='insert into tax values(%s,%s)'

cursor.execute(sql,L[i])

mydb.commit()

i+=1

def newtax():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

New Tax Records

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''')

list=[]

while True:

tax\_typ=input('Ener the Tax code:')

tax\_per=int(input('Tax percentage(%) :'))

t=(tax\_typ,tax\_per)

list.append(t)

ch=input('Do you want to add more ? (Y/N) :')

if ch.upper() in ['N','NO']:

break

taxdb(list)

print('Record added')

print()

input('Enter any key to back to menu...')

return

def droptax():

iD=input('Enter the Tax iD:')

print('Are you sure to Delete the Tax :',iD,end='')

ch=input('? (Y/N):')

if ch.upper() in ['Y','YES']:

sql='delete from tax where tax\_typ=%s'

cur=mydb.cursor()

cur.execute(sql,(iD,))

mydb.commit()

print('Successfully deleted...')

input('Enter any key to back to menu...')

return

else:

ch=input('Do you to be back to menu ? (Y/N):')

if ch.upper() in ['Y','YES']:

input('Enter any key to back to menu...')

return

else:

droptax()

def Taxes():

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Manage Taxes

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1. Show the Tax

2. Edit Tax (%)

3. Add new Tax

4. Remove a Tax

5. Back To Main Menu

''' )

true=True

while true: #choice selection

choice=input('Enter your choice (1-5):')

choice,true=choicenum(choice)

if true==False:

if (choice>5 or choice<1):

print('Enter the choice between (1-5)')

true=True

else:

true=False

#Choice execution

if choice==1:

alltax()

Admhome()

elif choice==2:

taxedit()

Admhome()

elif choice==3:

newtax()

Admhome()

elif choice==4:

droptax()

Admhome()

elif choice==5:

Admhome()

def allemp():

sql='select \* from emp'

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

All Employee Records

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''')

table=PrettyTable (['iD','Name','Age','Gen','DOB','Phone','Mail','acctype'])

for i in data:

table.add\_row([i[0],i[1],i[2],i[3],i[4],i[5],i[6],i[7]])

print(table)

input('Enter any key to back to menu...')

return

def Age\_1():

iD=input('Enter the iD:')

sql='select Age from emp where iD= %s'

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

data=cursor.fetchall()

age=data[0][0]

age+=1

sql='update emp set Age= %s where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(age,iD))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def Phone():

iD=input('Enter the iD:')

Ph=int(input('Enter The New Phone No.:'))

sql='update emp set PH= %s where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(Ph,iD))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def Mail():

iD=input('Enter the iD:')

mail=input('Enter The New Mail iD.:')

sql='update emp set MAIL=%s where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(mail,iD))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def empedit():

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Update Employee Records

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1. Age (+1)

2. Phone

3. Mail iD

4. Back to menu

''')

true=True

while true: #choice selection

choice=input('Enter your choice (1-4):')

choice,true=choicenum(choice)

if true==False:

if (choice>4 or choice<1):

print('Enter the choice between (1-4)')

true=True

else:

true=False

#Choice execution

if choice==1:

Age\_1()

empedit()

elif choice==2:

Phone()

empedit()

elif choice==3:

Mail()

empedit()

elif choice==4:

return

def approveemp():

iD=input('Enter the iD to approve:')

sql='update uid set Status= \'ACTIVE\' where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

mydb.commit()

print('Edited successfully...')

input('Enter any key to back to menu...')

return

def ownerverify2(uid,pas): # verify the login

sql='Select password from uid where username= %s and acctyp=\'Owner\''

cursor=mydb.cursor()

cursor.execute(sql,(uid,))

data=cursor.fetchall()

if data==[]:

print('Invalid Username or Username not found')

return False

elif data[0][0]==pas:

return True

else:

print('Invalid Password')

return False

def ownerverify1():

i=4

while i>0:

admuserid=input('Enter your Username:')

admpass=mask.getpass(prompt='Enter your Password:',mask='\*')

print('Verifying…. \n Please Wait....')

if ownerverify2(admuserid,admpass):

print('```````````````````````````````')

print('Verified...')

return True

else:

print()

i-=1

print('Chance left:', i)

print('Chances Exhasted...')

return False

def owner(iD):

sql='Select acctyp from emp where iD= %s;'

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

data=cursor.fetchall()

if data[0][0]=='Owner':

print('You cannot delete owner')

return True

else:

return False

def fireemp():

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Fire Employee

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''')

iD=input('Enter the iD to be Deleted:')

sql='select iD from emp where iD=%s'

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

data=cursor.fetchall()

if data==[]:

print('iD Not Found...')

input('Enter any key to be back to menu...')

return

if owner(iD):

return

ch=input('Are you sure to Delete:(Y/N):')

if ch.upper() in ['N','NO']:

return

print('verify you Before Deleting')

true=ownerverify1()

if true:

sql='delete from emp where iD=%s '

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

mydb.commit()

sql='delete from uid where iD=%s '

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

mydb.commit()

print('Deleted successfully...')

input('Enter any key to back to menu...')

return

else:

print('To many wrong attemps...')

print('Record Not Deleted')

input('Enter any key to back to menu...')

return

def Empmanage():

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Manage Employee

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1. Show Employee Details

2. Edit Employee Details

3. Approve New Employee

4. Remove Employee(Requires owner Authorization)

5. Back To Main Menu

''')

true=True

while true: #choice selection

choice=input('Enter your choice (1-5):')

choice,true=choicenum(choice)

if true==False:

if (choice>5 or choice<1):

print('Enter the choice between (1-5)')

true=True

else:

true=False

#Choice execution

if choice==1:

allemp()

Admhome()

elif choice==2:

empedit()

Admhome()

elif choice==3:

approveemp()

Admhome()

elif choice==4:

fireemp()

Admhome()

elif choice==5:

Admhome()

#bills

def Printbill(P1,t,P3,tax,Print4):

location=os.path.dirname(\_\_file\_\_)

location+=r"\Printer.txt"

with open(location,'w')as P :

for i in P1:

P.write(str(i))

P.write(str(t))

for i in P3:

P.write(str(i))

for i in tax:

P.write(str(i))

for i in Print4:

P.write(str(i))

os.startfile(location, "print")

input('Enter any key to be back to menu...')

return

def showbill(billno):

sql='select \* from bills where bill\_no=%s'

cursor=mydb.cursor()

cursor.execute(sql,(billno,))

data=cursor.fetchall()

if data==[]:

print('Bill Not Found...')

input('Enter any key to be back to menu...')

return

sql='select \* from tax'

cursor=mydb.cursor()

cursor.execute(sql)

data2=cursor.fetchall()

Print1=('''

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PETROLEUM PUMP

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''','Date:',data[0][3],'\t'\*3,'Time:',data[0][4],'\n',

'Bill No.:',data[0][0],'\t'\*3,'Atend\_iD:',data[0][1],'\n',

'Vehic No:',data[0][2],'\n',

'---------------------------------------------------\n')

Print3=('''

---------------------------------------------------

Items:''','\t',len(list(data[0][5].replace("[","").replace("]","").split(","))),'\t','included Taxs:','\n','\t'\*4,)

Print4=('\n','NET\_PAY::',data[0][10],'''

--------------------------------------------------

Thank You!

Visit Again!

''')

table=[]

table=PrettyTable (['Itm\_code','Item','Qty','Price/unit','Amount'])

t=[]

t.append(data[0][5].replace("[","").replace("]","").split(","))

t.append(data[0][6].replace("[","").replace("]","").split(","))

t.append(data[0][8].replace("[","").replace("]","").split(","))

t.append(data[0][7].replace("[","").replace("]","").split(","))

t.append(data[0][9].replace("[","").replace("]","").split(","))

for i in range(len(t[0])):

add=[]

for j in range(len(t)):

add.append(t[j][i])

table.add\_row(add)

Print=''

for i in Print1:

print(i,end='')

print(table)

for i in Print3:

print(i,end='')

tax=''

for i in data2:

tax+=i[0]+':'

tax+=str(i[1])+'%'+'\n'

print(tax)

for i in Print4:

print(i,end='')

print('\n Do you what to print this? (Y/N):',end='')

ch=input()

if ch.upper() in ['N','NO']:

input('Enter any key to be back to menu...')

return

else:

print('Preparing to print please wait....')

Printbill(Print1,table,Print3,tax,Print4)

def Searchbill():

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Search Bill

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''')

billno=input('Enter the Billno. to Search:')

showbill(billno)

return

def recordbill(tup):

sql='insert into bills values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)'

cursor=mydb.cursor()

cursor.execute(sql,tup)

mydb.commit()

print('Record Recored')

def updateqty(iD,qty):

i=0

while i<len(iD):

sql='select qty from stock where iD= %s'

cursor=mydb.cursor()

cursor.execute(sql,(iD[i],))

data=cursor.fetchall()

QTY=int(data[0][0])

QTY=QTY-int(qty[i])

sql='update stock set qty= %s where iD= %s '

cursor=mydb.cursor()

cursor.execute(sql,(QTY,iD[i]))

mydb.commit()

i+=1

def checkqty(qty,iD):

sql='select qty from stock where iD= %s'

cursor=mydb.cursor()

cursor.execute(sql,(iD,))

data=cursor.fetchall()

QTY=int(data[0][0])

QTY=QTY-int(qty)

if QTY>0:

print('Stock available')

return True

else:

print('Stock not available ...')

print('Enter again...')

return False

def itmname(itm\_code):

sql='select name,price from stock where iD= %s'

cursor=mydb.cursor()

cursor.execute(sql,(itm\_code,))

data=cursor.fetchall()

return data[0][0],float(data[0][1])

def billno():

sql='select max(bill\_no) from bills'

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

if data[0][0]==None:

return 1

else:

data=int(data[0][0])

data=data+1

return data

def Newbill():

product\_code=[]

products=[]

price\_unit=[]

qty=[]

price=[]

net\_pay=0

bill\_no=billno()

Atnd\_id=acc\_id

Date=datetime.date.today()

dt= datetime.datetime.now()

Time= dt.strftime("%H:%M:%S")

Vehi\_no=input('Vehicle Reg. No.:' )

if Vehi\_no=='':

Vehi\_no='Not Entered'

while True:

itm\_code=input('Enter the product code:')

itm\_name,ppu=itmname(itm\_code)

print('Enter Qty / Price ')

while True:

Qty=input('Enter the Qty:')

Price=input('Enter the Price:')

if (Qty=='' and Price=='') :

print('Enter Any one')

continue

elif (Qty!='' and Price==''):

print('processing price')

Price=int(Qty)\*ppu

Price=round(Price,2)

else:

print('If you entered both Quantity ignored')

print('Processing Qty...')

Qty=int(Price)/ppu

Qty=round(Qty,2)

if checkqty(Qty,itm\_code):

break

product\_code.append(itm\_code)

products.append(itm\_name)

price\_unit.append(ppu)

qty.append(Qty)

price.append(Price)

net\_pay+=int(Price)

ch=input('Do You want To Add more? (Y/N)')

if ch.isalpha():

if ch.upper() in ['N','NO']:

print(' Record accepted....')

print('Processing')

break

else:

print('Record acceptd')

tup=bill\_no,Atnd\_id,Vehi\_no,Date,Time,str(product\_code),str(products),str(price\_unit),str(qty),str(price),net\_pay

updateqty(product\_code,qty)

print('Stock Updated...')

recordbill(tup)

print('Bill Uploded....')

showbill(bill\_no)

return

def Showallbills():

sql='select \* from bills'

cursor=mydb.cursor()

cursor.execute(sql)

data=cursor.fetchall()

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

All Bill Records

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''')

table=PrettyTable (['Bill\_No','Atnd\_id','vehi\_no','Date','Time','Product\_code','Net\_Pay'])

for i in data:

table.add\_row([i[0],i[1],i[2],i[3],i[4],i[5],i[10]])

print(table)

input('Enter any key to be back to menu...')

return

def addlabels(x,y):

for i in range(len(x)):

plt.text(i,y[i],y[i])

def AddMonths(d,x):

newmonth = ((( d.month - 1) + x ) % 12 ) + 1

newyear = int(d.year + ((( d.month - 1) + x ) / 12 ))

return datetime.date( newyear, newmonth, d.day)

def earngraph():

f1 = {'family':'Comic Sans MS','color':'Blue','size':16}

f2 = {'family':'Comic Sans MS','color':'black','size':12}

x=[]

y=[]

print('End date(autometic) (+ a year of start date)')

print('default day = 1')

day=1

month=int(input('Month:'))

year=int(input('Year:'))

sd=datetime.date(year,month,day)

sd1=datetime.date(year,month,day)

for i in range(12):

x.append(sd.strftime("%b"))

sd1=AddMonths(sd,1)

sql='select sum(net\_pay) from bills where DATE BETWEEN %s AND %s'

cursor=mydb.cursor()

cursor.execute(sql,(sd,sd1))

data=cursor.fetchone()

y.append(data)

sd=AddMonths(sd,1)

net=0

i=[]

for j in y:

j=list(j)

if j[0]==None:

j[0]=0

i.append(j[0])

net=sum(i)

net=str(net)

net='Net\_Earn = '+ net

plt.title(net,fontdict = f1)

plt.xlabel("Month",fontdict = f2)

plt.ylabel("Earnings",fontdict = f2)

plt.bar(x,i,width = 0.5)

addlabels(x, i)

print('Close the graph to be back to menu...')

plt.show()

def populargraph():

f1 = {'family':'Comic Sans MS','color':'black','size':14}

x=[]

y=[]

print('End Value of date is Max of one month(30 days)(autometic)')

print('Enter as integer value...')

day=int(input('Day:'))

month=int(input('Month:'))

year=int(input('Year:'))

sd=datetime.date(year,month,day)

for i in range(30):

x.append(sd)

sql='select \* from bills where DATE=%s'

cursor=mydb.cursor()

cursor.execute(sql,(sd,))

sd+=timedelta(days=1)

d=cursor.fetchall()

data=len(d)

y.append(data)

plt.plot(x,y,marker = 'o')

plt.xlabel("Day",fontdict = f1)

plt.ylabel("No.of custmers",fontdict = f1)

print('Close the graph to be back to menu...')

plt.show()

return

def Bill():

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Manage Bills

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1. Show all Bill Records

2. Search For Bill Record

3. Find the Net. Earning per month (for year)

4. Coust. per day as Bill Records (for month)

5. Back To the Main Menu

''')

true=True

while true: #choice selection

choice=input('Enter your choice (1-5):')

choice,true=choicenum(choice)

if true==False:

if (choice>5 or choice<1):

print('Enter the choice between (1-5)')

true=True

else:

true=False

#Choice execution

if choice==1:

Showallbills()

Admhome()

elif choice==2:

Searchbill()

Admhome()

elif choice==3:

earngraph()

Admhome()

elif choice==4:

populargraph()

Admhome()

elif choice==5:

Admhome()

def Admhome(): # Admin Home

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Admin Home

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Logined as:''',accid ,'''

1. New Bill

2. Manage Stock

3. Manage Taxes

4. Manage Employee

5. Manage Bill Register

6. Contact Developer

7. Home

''')

true=True

while true: #choice selection

choice=input('Enter your choice (1-7):')

choice,true=choicenum(choice)

if true==False:

if (choice>7 or choice<1):

print('Enter the choice between (1-7)')

true=True

else:

true=False

#Choice execution

if choice==1:

Newbill()

Admhome()

elif choice==2:

Stock()

Admhome()

elif choice==3:

Taxes()

Admhome()

elif choice==4:

Empmanage()

Admhome()

elif choice==5:

Bill()

Admhome()

elif choice==6:

\_credits()

Admhome()

elif choice==7:

Home()

Admhome()

def Emphome(): #Employee Home

print('''

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WELCOME TO PETROLEUM PUMP DATA SERVER

Employee Home

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Logined as:''',accid ,'''

1. New Bill

2. Show the Product list

3. Show all Bill Records

4. Search For Bill Record

5. Contact Admin

6. Home

''')

true=True

while true: #choice selection

choice=input('Enter your choice (1-6):')

choice,true=choicenum(choice)

if true==False:

if (choice>6 or choice<1):

print('Enter the choice between (1-6)')

true=True

else:

true=False

#Choice execution

if choice==1:

Newbill()

Emphome()

elif choice==2:

allprod()

Emphome()

elif choice==3:

Showallbills()

Emphome()

elif choice==4:

Searchbill()

Emphome()

elif choice==5:

\_admins()

Emphome()

elif choice==6:

Home()

def Home():

#A drop down list!!!

print('''

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WELCOME TO PETROLEUM PUMP DATA SERVER

Home

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Login as Admin

2.Login as Worker

3.Employee Register

4.Exit

'''

)

true=True

while true: #choice selection

choice=input('Enter your choice (1-4):')

choice,true=choicenum(choice)

if true==False:

if (choice>4 or choice<1):

print('Enter the choice between (1-4)')

true=True

else:

true=False

#Choice execution

if choice==1:

Adminlog()

elif choice==2:

Emplogin()

elif choice==3:

Noobs()

elif choice==4:

exit()

#main funtion call Statement

Home()

End of Code…