**DATABASE AND TABLE CREATION**

**CODING:**

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="")

mycursor=mydb.cursor()

mycursor.execute("Create Database PC\_Express")

# creating tables for project

# table 1 for motherboards in stock and price

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Motherboard(Name varchar(100),Company varchar(50),Socket\_type varchar(50),Chipset varchar(50),Qty char(100),Price char(100))")

# table 2 for processor

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Processor(Company varchar(100),Name varchar(50),Cores int(4),Socket\_type varchar(100),Base\_clock varchar(100),Boost\_clock varchar(100),Qty char(100),Price int(100))")

# table 3 for Ram

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Rams(Company varchar(100),Name varchar(50),Size varchar(5),Speed varchar(100),Ram\_type varchar(100),Qty varchar(100),Price varchar(100))")

# table 4 for storage

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Storage(Company varchar(100),Name varchar(50),Type varchar(100),Speed varchar(100),Qty varchar(100),Price varchar(100))")

# table 5 for GPU

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Graphic\_Cards(Company varchar(100),Name varchar(100),Memory\_type varchar(100),Vram varchar(100),Qty varchar(100),Price varchar(100))")

# table 6 for power supply

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Power\_supply(Company varchar(100),Name varchar(100),Type varchar(100),Watts varchar(100),Qty varchar(100),Price varchar(100))")

# table 7 for cabinet

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Cabinet(Company varchar(100),Name varchar(100),Form\_Factor varchar(100),Qty varchar(100),Price varchar(100))")

# table 8 for Sales and customer details

import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="",db="pc\_express")

mycursor=mydb.cursor()

mycursor.execute("create table Sales\_Details(C\_name varchar(100),Phone\_NO varchar(100),Description\_of\_Goods varchar(100),Date\_of\_purchase date,Qty varchar(100),Price varchar(100))")

**SOURCE CODE**

print("-------------------- PC EXPRESS ---------------------")

print('\n')

print("-------------------- DATABASE 2020 ---------------------")

print("\n")

c='y'

while(c=='y'):

print('1.PC Component')

print('2.Sales Detail')

print('3.Exit')

print('\n')

choice=int(input('Enter the number:'))

print('\n')

if choice==1:

print('1.Motherboard')

print('2.Processor')

print('3.Ram')

print('4.Storage')

print('5.Graphic card')

print('6.Power Supply')

print('7.Cabinet')

print('8.EXIT')

print('\n')

a=int(input('Enter the number:'))

print('\n')

if a==1:

def mob():

c='y'

while c=='y':

print('1.Add Motherboard Record')

print('2.Update Motherboard Record')

print('3.Display Motherboard Record')

print('4.Modify Motherboard Record')

print('5.Delete Motherboard Record')

print('6.Main Menu')

print('\n')

x=int(input('Enter the number:'))

if x==1:

addmb()

elif x==2:

upmb()

elif x==3:

dismb()

elif x==4:

modmb()

elif x==5:

delmb()

else :

print('Returning to main menu')

break

def addmb():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

name=input('Model Name:')

company=input('Company Name:')

soctype=input("socket\_type Name:")

chip=input('Chipset Name:')

qty=input('QUANTITY:')

price=input('Enter Price:')

mycursor.execute("""INSERT INTO motherboard(Name,Company,Socket\_type,Chipset,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s)""",(name,company,soctype,chip,qty,price))

mydb.commit()

print("Record Inserted")

except Exception as e:

print("Unable to insert record")

print(e)

def upmb():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

U=input("Enter the SQL Command for update:")

mycursor.execute(U)

mydb.commit()

print('Record Updated')

except Exception as e:

print(e)

print("Unable to update record")

def dismb():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

d=input("Enter SQL Command for displaying record:")

mycursor.execute(d)

results=mycursor.fetchall()

for i in results:

print(i)

print("Record Displayed")

mydb.commit()

except Exception as e:

print("Error:unable to fetch data.Please try again")

print(e)

def modmb():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

w=input("Enter the Sql Command:")

mycursor.execute(w)

mydb.commit()

print("Record Modified")

except Exception as e:

print(e)

print("Unable to Modify")

def delmb():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

r=input("Enter The sql command:")

mycursor.execute(r)

mydb.commit()

print("Record Deleted")

except Exception as e:

print(e)

print("Unable to delete")

mob()

if a==2:

def pro():

print("1.Add Processsor Records")

print("2.Update Processor Records")

print('3.Display Proecessor Records')

print("4.Modify Processor Records")

print("5.Delete Processor Records")

print('6.Exit')

print('\n')

t=int(input("Enter Your Choice:"))

print('\n')

if t==1:

addpro()

elif t==2:

uppro()

elif t==3:

dispro()

elif t==4:

modpro()

elif t==5:

delpro()

else:

('Returning to main menu...')

def addpro():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

company=input('Enter company name:')

name=input('Enter Product name:')

cores=int(input('Enter No of cores:'))

soctype=input("Enter soctype:")

basecl=input('Enter base clock:')

boostcl=input("Enter Boost clock:")

qty=input('Enter Quantity:')

price=input('Enter price:')

mycursor.execute("""INSERT INTO processor(Company,Name,Cores,Socket\_type,Base\_clock,Boost\_clock,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s,%s,%s)""",(company,name,cores,soctype,basecl,boostcl,qty,price))

mydb.commit()

print('Records Inserted')

except Exception as e:

print("Unable to insert record")

print(e)

def uppro():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

u=input('Enter SQL Command for update:')

mycursor.execute(u)

print("Record updated")

mydb.commit()

except Exception as e:

print(e)

print('Unable to Update record')

def dispro():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

d=input("Enter the SQL command for displaying Record")

mycursor.execute(d)

results=mycursor.fetchall()

for o in results:

print(o)

print("Displaying Record...")

mydb.commit()

except Exception as e:

print(e)

print('Unable to display record')

def modpro():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',uer='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

m=input("Enter SQL Command for modifiying Record" )

mycursor.execute(m)

print("Record Modified")

mydb.commit()

except Exception as e:

print(e)

print("Unable to modify record")

def delpro():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',pssswd="",db='pc\_express')

mycursor=mydb.cursor()

k=input("Enter SQL Command for Deleting Record")

mycursor.execute(k)

print('Record deleted')

mydb.commit()

except Exception as e:

print('Unable to delete Record')

print(e)

pro()

if a==3:

def ram():

print("1.Add Ram Records")

print("2.Update Ram Records")

print("3.Display Ram Records")

print("4.Modify Ram Records")

print("5.Delete Ram Records")

print("6.Exit")

print("\n")

x=int(input("Enter Your choice:"))

print('\n')

if x==1:

addram()

elif x==2:

upram()

elif x==3:

disram()

elif x==4:

modram()

elif x==5:

delram()

else:

print("Returing to main menu...")

def addram():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

company=input("Enter Company name:")

name=input('Enter Name:')

size=input("Enter Size:")

speed=input('Enter Speed:')

ramtype=input("Enter Ramtype:")

qty=input('Enter Quantity:')

price=input('Enter Price:')

mycursor.execute("""INSERT INTO rams(Company,Name,Size,Speed,Ram\_type,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s,%s)""",(company,name,size,speed,ramtype,qty,price))

print('Record Inserted')

mydb.commit()

except Exception as e:

print("Unable to insert Record")

print(e)

def upram():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

u=input("Enter SQL Command for update:")

mycursor.execute(u)

print('Record updated')

mydb.commit()

except Exception as e:

print("Unable to update record")

print(e)

def disram():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

g=input("Enter SQL Command for displaying record:")

mycursor.execute(g)

results=mycursor.fetchall()

for j in results:

print(j)

print('Record Displayed')

mydb.commit()

except Exception as e:

print("Unable to display record")

print(e)

def modram():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

h=input('Enter SQL Command for modifying record:')

mycursor.execute(h)

print('Record modified')

mydb.commit()

except Exception as e:

print("Unable to modify record")

print(e)

def delram():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

j=input('Enter the SQL Command for delete')

mycursor.execute(j)

print('Record deleted')

mydb.commit()

except Exception as e:

print("Unable to delete")

print(e)

ram()

if a==4:

def storage():

print("1.Add Storage Records")

print("2.Update Storage Records")

print("3.Display Storage Records")

print("4.Modify Storage Records")

print("5.Delete Storage Records")

print("6.Exit")

print("\n")

c=int(input("Enter Your Choice:"))

print('\n')

if c==1:

addsto()

elif c==2:

upsto()

elif c==3:

dissto()

elif c==4:

modsto()

elif c==5:

delsto()

else:

print("Returing to main menu...")

def addsto():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

company=input('Enter Company name:')

name=input('Enter product name:')

type=input('Enter storage type:')

speed=input('Enter speed:')

size=input("Enter Storage size:")

qty=input('Enter Quantity')

price=input('Enter price:')

mycursor.execute("""INSERT INTO storage(Company,Name,Type,Speed,Size,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s,%s)""",(company,name,type,speed,size,qty,price))

print('Record Inserted')

mydb.commit()

except Exception as e:

print("Unable to insert record ")

print(e)

def upsto():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

z=input("Enter the SQL Command for update:")

mycursor.execute(z)

print('Record Updated')

mydb.commit()

except Exception as e:

print("Unable to update the record")

print(e)

def dissto():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db="pc\_express")

mycursor=mydb.cursor()

v=input("Enter SQL Command for displaying record:")

mycursor.execute(v)

results=mycursor.fetchall()

for n in results:

print(n)

print('Record Displayed')

mydb.commit()

except Exception as e:

print("Unable to display record")

print(e)

def modsto():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

b=input("Enter SQL Command for Modify:")

mycursor.execute(b)

print('Record Modified')

mydb.commit()

except Exception as e:

print("Unable to modify record")

print(e)

def delsto():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

n=input("Enter SQL Command for deleting Records:")

mycursor.execute(n)

print("Records Deleted")

mydb.commit()

except Exception as e:

print("Unable to Delete record")

print(e)

storage()

if a==5:

def gfx():

print("1.Add Graphic card Records")

print("2.Update Graphic card Records")

print("3.Display Graphic card Records")

print("4.Modify Graphic card Records")

print("5.Delete Graphic card Records")

print("6.Exit")

print('\n')

y=int(input('Enter Your Choice:'))

print('\n')

if y==1:

addgfx()

elif y==2:

upgfx()

elif y==3:

disgfx()

elif y==4:

modgfx()

elif y==5:

delgfx()

else:

print('Returing to main menu...')

def addgfx():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

company=input("Enter company name:")

name=input("Enter product name:")

memtype=input("Enter Memory Type:")

vram=input("Enter Amount of vram:")

qty=input('Enter Quantity')

price=input("Enter price of graphic card")

mycursor.execute("""INSERT INTO graphic\_cards(Company,Name,Memory\_Type,Vram,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s)""",(company,name,memtype,vram,qty,price))

print("Record Inserted")

mydb.commit()

except Exception as e:

print("Unable to insert record")

print(e)

def upgfx():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

i=input('Enter SQL Command for updating records:')

mycursor.execute(i)

print("Record Updated")

mydb.commit()

except Exception as e:

print("Unable to update records")

print(e)

def disgfx():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

r=input('Enter SQL Command for displaying record:')

mycursor.execute(r)

results=mycursor.fetchall()

for k in results:

print(k)

print('Record Displayed')

mydb.commit()

except Exception as e:

print("Unable to display records")

print(e)

def modgfx():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

o=input('Enter the SQL Command for modifying record:')

mycursor.execute(o)

print("Record Modified")

mydb.commit()

except Exception as e:

print("Unable to modify record")

print(e)

def delgfx():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

u=input('Enter the SQL Command for deleting records:')

mycursor.execute(u)

print("Record deleted")

mydb.commit()

except Exception as e:

print("Unable to delete record")

print(e)

gfx()

if a==6:

def psu():

print("1.Add Power Supply Records")

print("2.Update Power Supply Records")

print("3.Display Power Supply Records")

print("4.Modify Power Supply Records")

print("5.Delete Power Supply Records")

print('\n')

e=int(input('Enter Your Choice:'))

print('\n')

if e==1:

addpsu()

elif e==2:

uppsu()

elif e==3:

dispsu()

elif e==4:

modpsu()

elif e==5:

delpsu()

else:

print("Returing to main menu...")

def addpsu():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

company=input('Enter Company name:')

name=input('Enter Product name:')

psutype=input('Enter the psu type:')

watts=input('Enter Watts: ')

qty=input('Enter Quantity:')

price=input('Enter price:')

mycursor.execute("""INSERT INTO power\_supply(Company,Name,Type,Watts,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s)""",(company,name,psutype,watts,qty,price))

print("Record Inserted")

mydb.commit()

except Exception as e:

print('Unable to insert record')

print(e)

def uppsu():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

s=input("Enter SQL Command for update:")

mycursor.execute(s)

print("Record updates")

mydb.commit()

except Exception as e:

print('Unable to insert record')

print(e)

def dispsu():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

d=input("Enter SQL Command for displaying records:")

mycursor.execute(d)

results=mycursor.fetchall()

for l in results:

print(l)

print("Records Displayed")

mydb.commit()

except Exception as e:

print("Unable to display records")

print(e)

def modpsu():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

f=input("Enter SQL Command for modifying records:")

mycursor.execute(f)

print("Records Modified")

mydb.commit()

except Exception as e:

print("Unable to modify record")

print(e)

def delpsu():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

b=input("Enter SQL Command to delete records:")

mycursor.execute(b)

print('Record Deleted')

mydb.commit()

except Exception as e:

print('Unable to delete record')

print(e)

psu()

if a==7:

def case():

print('1.Add cabinet records')

print('2.Update cabinet records')

print('3.Display cabinet records')

print("4.Modify cabinet records")

print('5.Delete cabinet records')

print('6.Exit')

print('\n')

v=int(input("Enter Your Choice"))

print("\n")

if v==1:

addcase()

elif v==2:

upcase()

elif v==3:

discase()

elif v==4:

modcase()

elif v==5:

delcase()

else:

("Returning to main menu...")

def addcase():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

company=input("Enter Company name:")

name=input("Enter Product name:")

size=input("Enter the Form Factor:")

qty=input('Enter Quantity:')

price=input('Enter Price:')

mycursor.execute("""INSERT INTO cabinet(Company,Name,Form\_Factor,Qty,Price)VALUES(%s,%s,%s,%s,%s)""",(company,name,size,qty,price))

print('Record Inserted')

mydb.commit()

except Exception as e:

print('Unable to insert record')

print(e)

def upcase():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

l=input('Enter the SQL Command for update')

mycursor.execute(l)

print("Record Updated")

mydb.commit()

except Exception as e:

print("Unable to update record")

print(e)

def discase():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

j=input('Enter the SQL Command to display record:')

mycursor.execute(j)

results=mycursor.fetchall()

for s in results:

print(s)

print('Record Displayed')

mydb.commit()

except Exception as e:

print('Unable to display record')

print(e)

def modcase():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

t=input('Enter the SQL Command to modify record:')

mycursor.execute(t)

print('Record Modified')

mydb.commit()

except Exception as e:

print("Unable to modify record")

print(e)

def delcase():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

z=input("Enter the SQL Command to delete record:")

mycursor.execute(z)

print("Record Deleted")

mydb.commit()

except Exception as e:

print('Unable to delete record')

print(e)

case()

else:

print('Returning to main menu...')

if choice==2:

def sale():

print('1.Add Sales Details records')

print("2.Update Sales Details records")

print('3.Display Sales Details records')

print('4.Modify Sales Details records')

print('5.Delete Sales Details records')

print('6.Exit')

print('\n')

f=int(input("Enter Your Choice:"))

print('\n')

if f==1:

addsale()

elif f==2:

upsale()

elif f==3:

dissale()

elif f==4:

modsale()

elif f==5:

delsale()

else:

('Returing to main menu...')

def addsale():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

cname=input('Enter Customer name:')

phno=input('Enter Phone number:')

dog=input("Enter Description\_of\_Goods:")

dop=input('Enter the Date\_of\_purchase:')

qty=input('Enter Quantity:')

price=input('Enter price:')

mycursor.execute("""INSERT INTO sales\_details(C\_name,Phone\_No,Description\_of\_Goods,Date\_of\_purchase,Qty,Price)VALUES(%s,%s,%s,%s,%s,%s)""",(cname,phno,dog,dop,qty,price))

print('Record Updated')

mydb.commit()

except Exception as e:

print('Unable to insert record')

print(e)

def upsale():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

q=input('Enter SQL Command for updating records:')

mycursor.execute(q)

print("Record Updates")

mydb.commit()

except Exception as e:

print("Unable to update record")

print(e)

def dissale():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

g=input('Enter SQL Command for Displaying records:')

mycursor.execute(g)

results=mycursor.fetchall()

for u in results:

print(u)

print('Record Displayed')

mydb.commit()

except Exception as e:

print("Unable to display record")

print(e)

def modsale():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

k=input('Enter SQL Command to modify records:')

mycursor.execute(k)

print('Record Modified')

mydb.commit()

except Exception as e:

print('Unable to modify record')

print(e)

def delsale():

import mysql.connector

try:

mydb=mysql.connector.connect(host='localhost',user='root',passwd="",db='pc\_express')

mycursor=mydb.cursor()

i=input('Enter SQL Command to Delete record:')

mycursor.execute(i)

print('Record deleted')

mydb.commit()

except Exception as e:

print('Unable to delete Record')

print(e)

sale()

if choice==3:

exit()

OUTPUT:

