A Project Report On

***SUPER MARKET BILLING***



**Submitted By**

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**Working Description**

* To start the main program the User is asked about the Password which is the **Password of SQL** i.e. 123456(in this case)
* After this the program creates the database and the table for our program.
* Then the **menu** appears in which we can choose options for carrying out the mentioned operation.
* The User can view the products which are in the database(Supermarket) using the **View Product Option**(1).
* The user can also enter the information (Pno, PName, Brand, MRP, SellingP) of the product(Only If there is no entry with same Pno) in database using the **Add product option**(2).
* The user can also remove a record using Pno, PName or Brand of the product in database using the **Remove product option**(3).
* The user can also update the pno, name, brand, mrp, sellingp, of the any record using the **Update Products option**(4).
* The user can also search records which are in the Database by Modes(Pno,PName,Brand).If multiple records found it will show multiple using the **Search Record option**(5).

**Module Imported**

* **mysql.connector**
* To establish a connection between python(front end) and mysql(back end) and carry out the queries needed as per the program.
* **datetime**
* To capture system date and time and use it to display current date and time in the program.
* **time**
* To add some delay between parts of program

**Coding**

**import mysql.connector as con**

**import datetime**

**import time**

**while True:**

**try:**

**pswd=input("Enter SQL Password:")**

**dbobj=con.connect(host="localhost",user="root",password=pswd,charset='utf8')**

**print("Connecting....")**

**time.sleep(2)**

**break**

**except :**

**print("\*\*\*WRONG PASSWORD\*\*\*")**

**crsr=dbobj.cursor()**

**now = datetime.datetime.now()**

**def dbtable():**

**crsr.execute("create database if not exists supermarket")**

**crsr.execute("use supermarket")**

**crsr.execute("create table if not exists product(PNO int,PNAME char(15),BRAND char(15),MRP int,SELLINGP int,primary key(PNO))")**

**def intro():**

**print()**

**print("\_"\*85)**

**print("""**

**DARSHIL SUPEMARKET {}**

**0)EXIT**

**1)VIEW PRODUCTS**

**2)ADD PRODUCT**

**3)REMOVE PRODUCT**

**4)UPDATE PRODUCTS**

**5)SEARCH RECORD**

**""".format(now.strftime('%d-%m-%Y %H:%M')))**

**def intinp(stmnt):**

**y=0**

**while y==0:**

**try:**

**x=input(stmnt)**

**if bool(int(x))==True:**

**y=1**

**return int(x)**

**except:**

**print("\*\*\*\*Integer Value Required\*\*\*\*")**

**def searchby():**

**print("SEARCH PRODUCT".center(85,'='))**

**print("""**

**MODES:**

**0)EXIT**

**1)PNO**

**2)PNAME**

**3)BRAND """)**

**print("\_"\*85)**

**y=0**

**data=""**

**while y==0:**

**try:**

**print()**

**mod=input("Enter Mode:")**

**if mod=="0":**

**y=1**

**break**

**elif mod=="1" or mod=="pno" or mod=="PNO":**

**z=1**

**while z==1:**

**try:**

**val=intinp("Enter PNO")**

**if val==0:**

**z=0**

**else:**

**searchrecord("pno",val)**

**z=0**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="2" or mod=="PNAME" or mod=="pname":**

**z=1**

**while z==1:**

**try:**

**data=input("Enter PNAME:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**searchrecord("pname",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="3" or mod=="BRAND" or mod=="brand":**

**z=1**

**while z==1:**

**try:**

**data=input("Enter BRAND:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**searchrecord("brand",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**else:**

**print("WRONG MODE SELECTED...")**

**except ValueError:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**def searchrecord(by,val):**

**try:**

**crsr.execute("select \* from product where {}='{}'".format(by,val))**

**data=crsr.fetchall()**

**if data==[]:**

**print("EMPTY RECORD")**

**else:**

**crsr.execute("desc product;")**

**recs=crsr.fetchall()**

**print(recs[0][0].ljust(7),recs[1][0].ljust(25),recs[2][0].ljust(25),recs[3][0].ljust(10),recs[4][0].ljust(10),sep="")**

**for rec in data:**

**print(str(rec[0]).ljust(7),rec[1].ljust(25),rec[2].ljust(25),str(rec[3]).ljust(10),str(rec[4]).ljust(10),sep="")**

**except Exception as error:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_",error)**

**def viewproduct():**

**print()**

**print("-"\*85)**

**crsr.execute("desc product;")**

**recs=crsr.fetchall()**

**print(recs[0][0].ljust(7),recs[1][0].ljust(25),recs[2][0].ljust(25),recs[3][0].ljust(10),recs[4][0].ljust(10),sep="")**

**crsr.execute("select \* from product;")**

**recs=crsr.fetchall()**

**for rec in recs:**

**print(str(rec[0]).ljust(7),rec[1].ljust(25),rec[2].ljust(25),str(rec[3]).ljust(10),str(rec[4]).ljust(10),sep="")**

**def addproduct():**

**print("ADD PRODUCT".center(85,'='))**

**try:**

**n=intinp("Enter no. of records to be added:")**

**for w in range (n):**

**try:**

**pno=intinp("Enter PNO:")**

**pname=input("Enter PNAME:")**

**brand=input("Enter BRAND:")**

**mrp=intinp("Enter MRP:")**

**sellingp=intinp("Enter SELLINGP:")**

**record=(str(pno),pname,brand,str(mrp),str(sellingp))**

**print(record)**

**print()**

**confirm=input("Confirm(y/n):")**

**print()**

**try:**

**if confirm=="y" or confirm=="Y":**

**crsr.execute("insert into product values {}".format(record))**

**crsr.execute("commit")**

**print()**

**except con.errors.IntegrityError:**

**print("\*\*\*\*DUPLICATE KEY NOT ALLOWED\*\*\*\*")**

**except con.errors.DataError:**

**print("DATA TOO LONG")**

**except ValueError:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**except ValueError:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**def remove(by,val):**

**try:**

**crsr.execute("select \* from product where {}='{}'".format(by,val))**

**rec=crsr.fetchall()**

**if rec==[]:**

**print("EMPTY RECORD")**

**else:**

**print("Record:")**

**print(rec)**

**confirm=input("Confirm(y/n):")**

**if confirm=="y" or confirm=="Y":**

**if by=="pno":**

**crsr.execute("delete from product where pno ={}".format(val))**

**elif by=="pname":**

**crsr.execute("delete from product where pname = '{}'".format(val))**

**elif by=="brand":**

**crsr.execute("delete from product where brand ='{}'".format(val))**

**crsr.execute("commit")**

**print("RECORD DELETED")**

**return**

**else:**

**pass**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**def removeproduct():**

**print("REMOVE PRODUCT".center(85,'='))**

**print("""**

**MODES:**

**0)EXIT**

**1)PNO**

**2)PNAME**

**3)BRAND """)**

**print("\_"\*85)**

**y=0**

**data=""**

**while y==0:**

**try:**

**print()**

**mod=input("Enter Mode:")**

**if mod=="0":**

**y=1**

**break**

**elif mod=="1" or mod=="pno" or mod=="PNO":**

**z=1**

**while z==1:**

**try:**

**val=intinp("Enter PNO")**

**if val==0:**

**z=0**

**else:**

**remove("pno",val)**

**z=0**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="2" or mod=="PNAME" or mod=="pname":**

**z=1**

**while z==1:**

**try:**

**data=input("Enter PNAME:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**remove("pname",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="3" or mod=="BRAND" or mod=="brand":**

**z=1**

**while z==1:**

**try:**

**data=input("Enter BRAND:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**remove("brand",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**else:**

**print("WRONG MODE SELECTED...")**

**except ValueError:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**def update(mod,val):**

**try:**

**crsr.execute("select \* from product where {}='{}'".format(mod,val))**

**rec=crsr.fetchall()**

**if rec==None:**

**print("EMPTY RECORD")**

**else:**

**print("Record:")**

**print(rec)**

**confirm=input("Confirm(y/n):")**

**if confirm=="y" or confirm=="Y":**

**if mod=="pno":**

**newrec=intinp("Enter NEW PNO:")**

**crsr.execute("update product set pno={} where pno={}".format(newrec,val))**

**elif mod=="pname":**

**newrec=input("Enter NEW PNAME:")**

**k="update product set pname= '"+ newrec+"' where pname= '"+val + "'"**

**crsr.execute(k)**

**elif mod=="brand":**

**newrec=input("Enter NEW BRAND:")**

**k="update product set brand= '"+ newrec+"' where brand= '"+val + "'"**

**crsr.execute(k)**

**elif mod=="mrp":**

**newrec=intinp("Enter NEW MRP:")**

**crsr.execute("update product set mrp={} where mrp={}".format(newrec,val))**

**elif mod=="sellingp":**

**newrec=intinp("Enter NEW SELLINGP:")**

**crsr.execute("update product set sellingp={} where sellingp={}".format(newrec,val))**

**crsr.execute("commit")**

**print("RECORD UPDATED")**

**return**

**else:**

**pass**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**def updateproduct():**

**print("UPDATE PRODUCT".center(85,'='))**

**print("""**

**0)EXIT**

**1)PNO**

**2)PNAME**

**3)BRAND**

**4)MRP**

**5)SELLINGP**

**""")**

**y=0**

**data=""**

**while y==0:**

**try:**

**print()**

**mod=input("Enter Mode:")**

**if mod=="0":**

**y=1**

**break**

**elif mod=="1" or mod=="pno" or mod=="PNO":**

**z=1**

**while z==1:**

**try:**

**val=intinp("Enter CURRENT PNO: ")**

**if val==0:**

**z=0**

**else:**

**update("pno",val)**

**z=0**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="2" or mod=="PNAME" or mod=="pname":**

**z=1**

**while z==1:**

**try:**

**data=input("Enter PNAME:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**update("pname",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="3" or mod=="BRAND" or mod=="brand":**

**z=1**

**while z==1:**

**try:**

**data=input("Enter BRAND:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**update("brand",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="4" or mod=="MRP" or mod=="mrp":**

**z=1**

**while z==1:**

**try:**

**data=intinp("Enter CURRENT MRP:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**update("mrp",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**elif mod=="5" or mod=="SELLINGP" or mod=="sellingp":**

**z=1**

**while z==1:**

**try:**

**data=intinp("Enter CURRENT SELLINGP:")**

**if data=="0":**

**z=1**

**else:**

**z=0**

**update("sellingp",data)**

**except:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**else:**

**print("WRONG MODE SELECTED...")**

**except ValueError:**

**print("\_\_\_\_\_Wrong values\_\_\_\_\_")**

**def main():**

**dbtable()**

**while True:**

**time.sleep(1)**

**intro()**

**option=input("Enter Option:")**

**if option=="1":**

**viewproduct()**

**elif option=="2":**

**addproduct()**

**elif option=="3":**

**removeproduct()**

**elif option=="4":**

**updateproduct()**

**elif option=="5":**

**searchby()**

**elif option=="0":**

**print("Thanks for visiting...")**

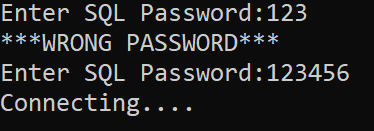
**break**

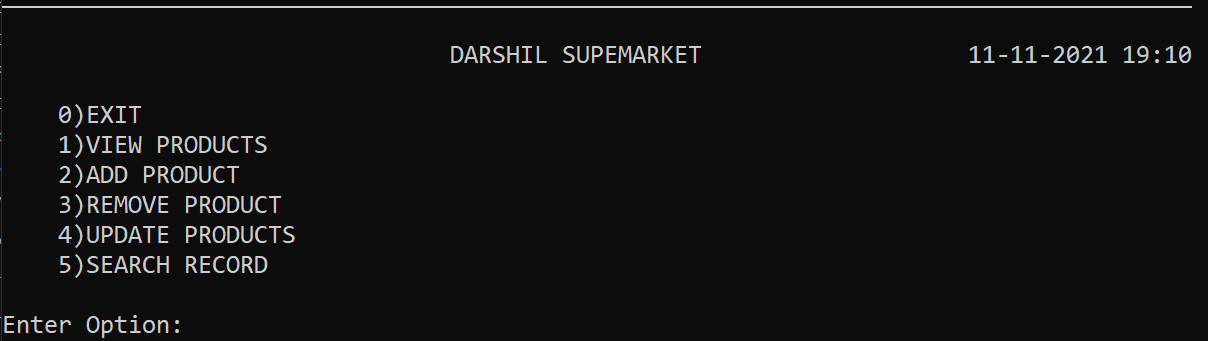
**else:**

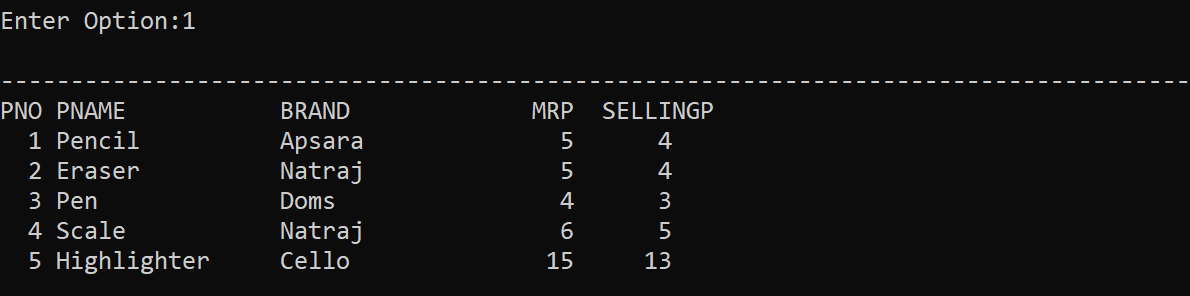
**print("Try Again")**

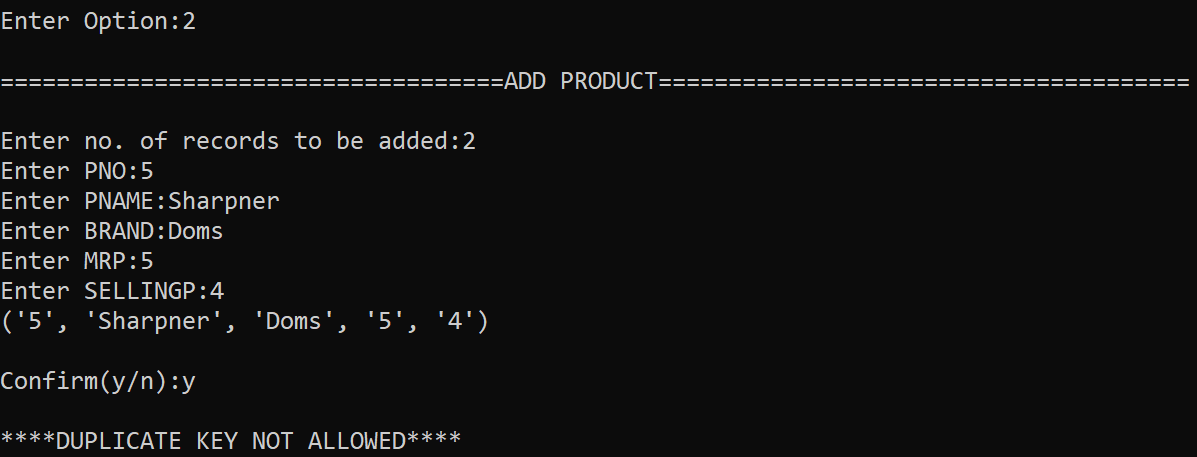
**main()**

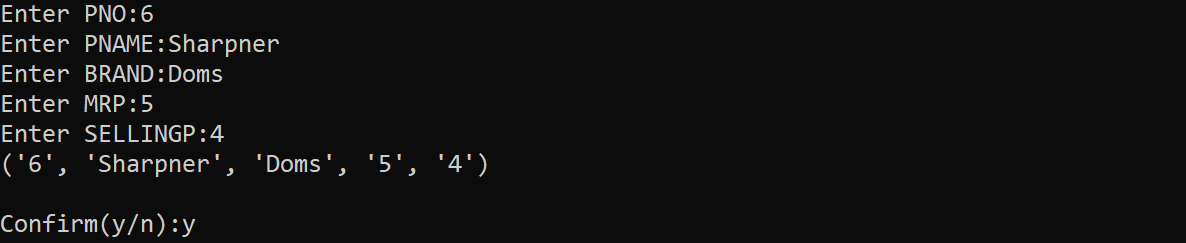
**Output**

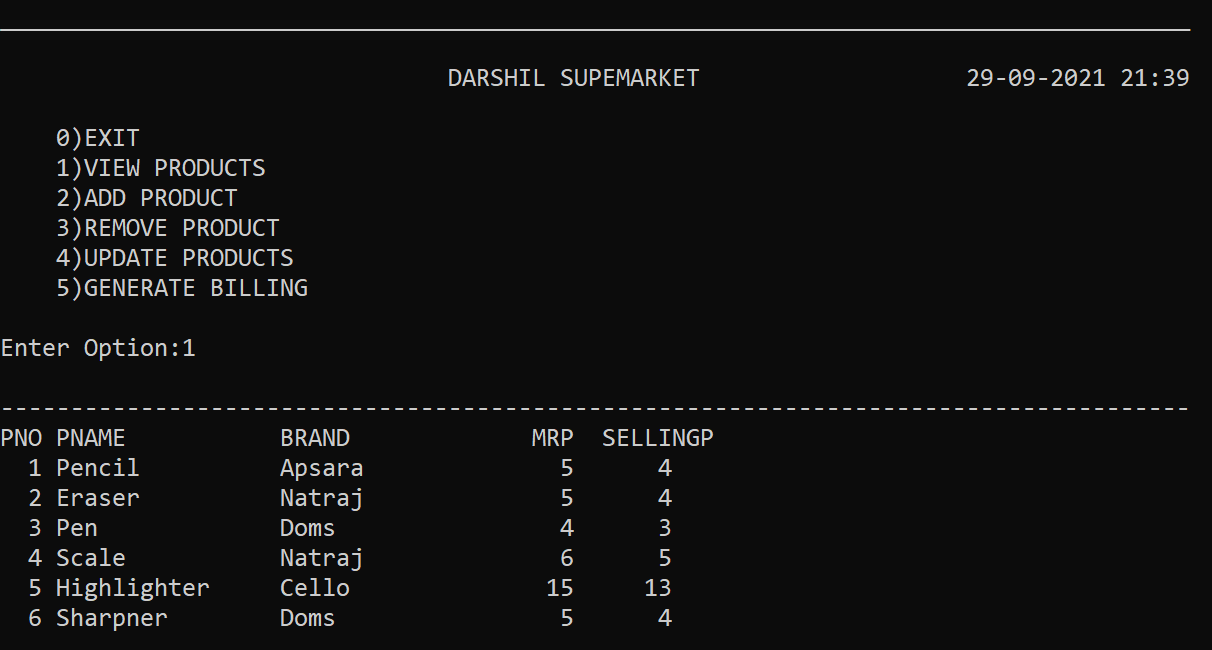


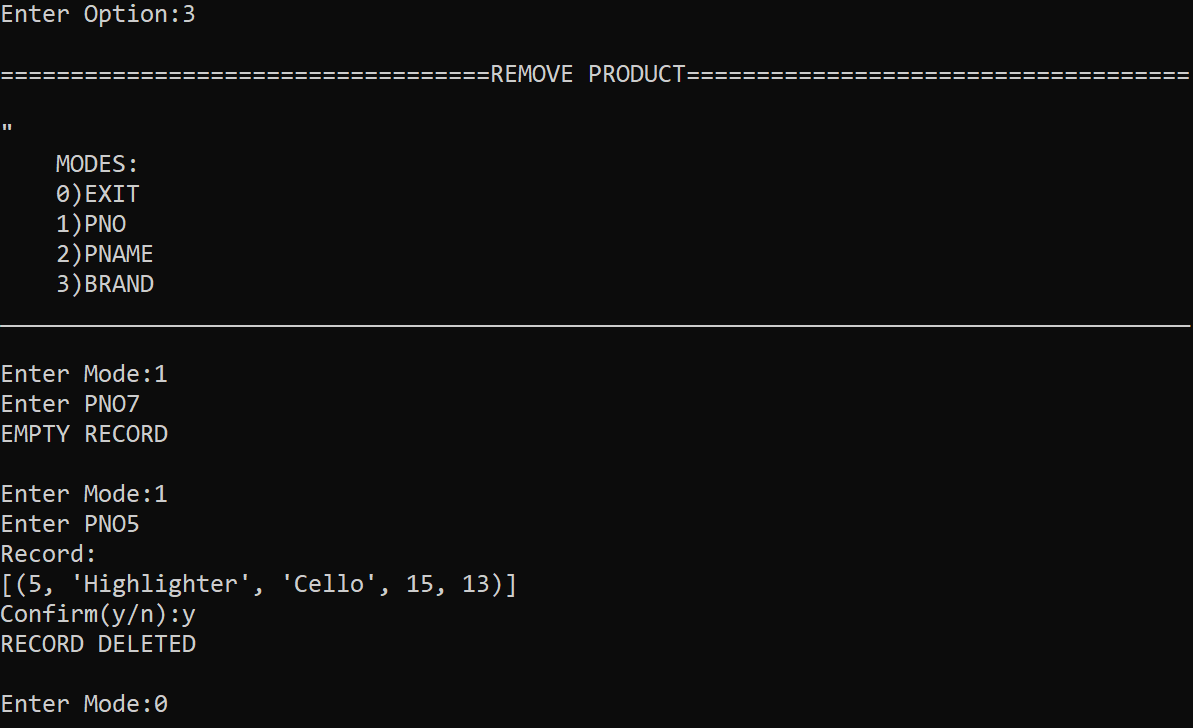


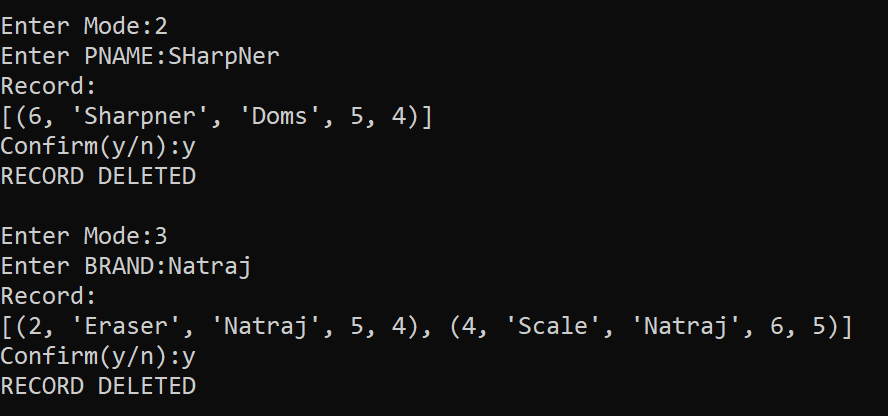


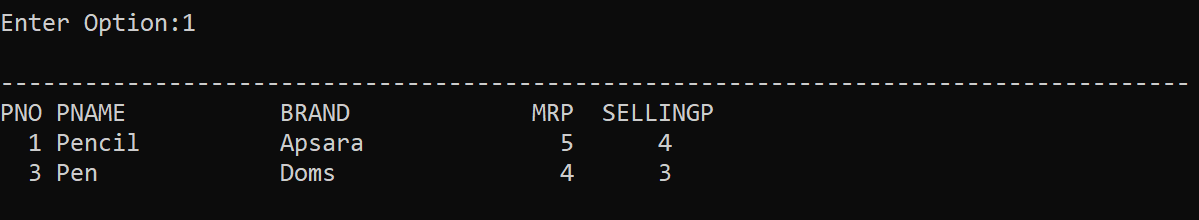


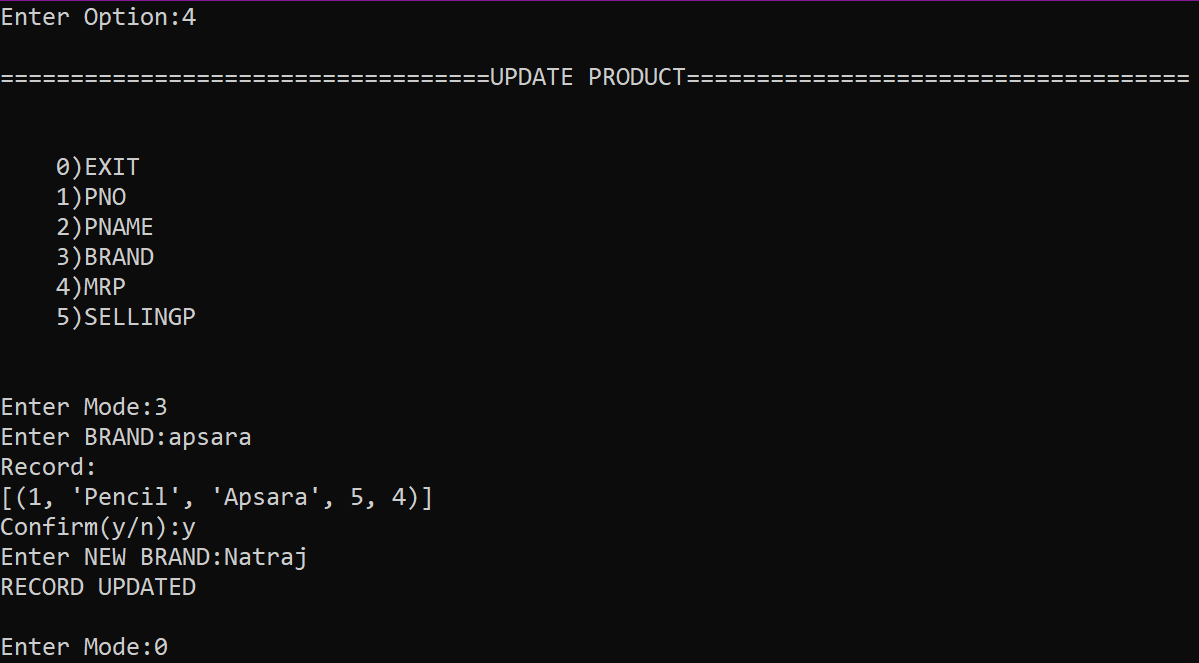


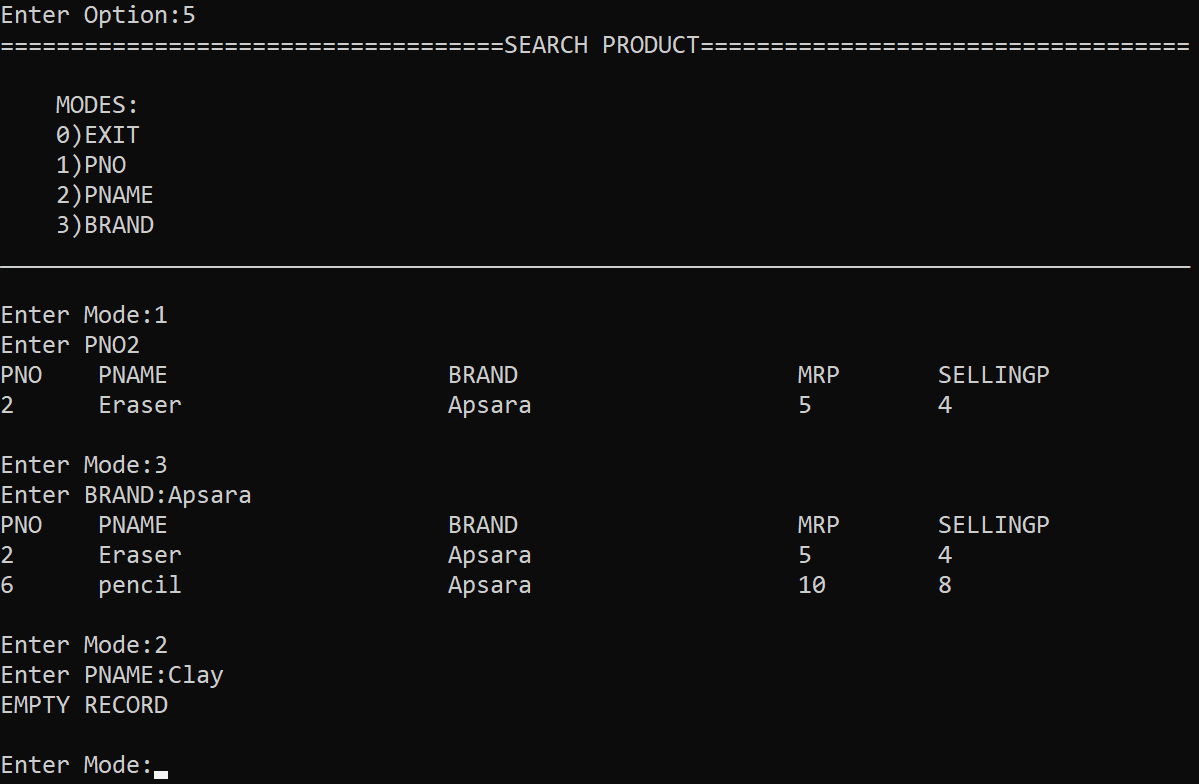












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