INVENTORY MANAGEMENT SYSTEM

Done By

1)Shreya V

2)Andal V

INDEX

BRIEF OVERVIEW OF PROJECT

The project is based upon the real-life inventory management system where it is used to store the items in stock of a shop which contains all types of products including grocery , clothing , stationary items beauty products etc.

Programming languages used for this project are python and MySQL. Whole program is on python whereas database is stored on MySQL server database. Upon running the program, the user has to enter the main details of product namely product name , product quantity, product location hsn code, cost and selling price in 6 different tables created in the database and the output is obtained in a tabular form in the python shell.

Similar mechanism is followed in the real-life inventory management system.

Program definition:

Inventory Management System project is written in Python by integrating it with MYSQL. The project file contains a python script (cs project.py). This is simple project which is easy to understand and use. It contains all the required functions which
includes inserting, viewing, updating, and deleting records in the table present in the database. The output is displayed in a tabular form.

Functions used in the program:

- *insert_rec ()*

While adding inventory items the user has to enter the Product Name, quantity, specifications, manufacturing and expiry dates, cost and selling price along with other necessary details including hsn code.

- *update ()*

the user is given the option to modify the records present in the table by identifying the particular record using the hsn code.

- *display ()*

the user is given the choice to view the records present in the table in a tabular form in the python shell

- *delete ()*

the user is given the choice to the records present in the table by identifying the records using their respective hsn code

Software and Hardware Requirements

Software:

SOFTWARE SPECIFICATION

Operating System	*:*	*Windows 10/8/7*
Platform	*:*	*Python IDLE 3.7/3.8*
Database	*:*	*MySQL*
Languages	*:*	*Python*

HARDWARE SPECIFICATION

Processor	*:*	*Dual core or above*
Hard Disk	*:*	*40 GB*
RAM	*:*	*1024 MB*

Source Code:

```
import mysql.connector as sql

x=sql.connect(host="localhost",user="root",passwd="DeviPython03#",database="ims7")

cur=x.cursor()


"""cur.execute("create table grocery (pdt_name char(50),pdt_size integer,specifications char(250),mfd date,expiry_date date,cost decimal(4),price decimal(4),category char(20),hsn_code integer(5),location char(55),availability integer,in_Stock char(20))")

cur.execute("create table electronics (pdt_name char(50),pdt_size integer,specifications char(250),mfd date,expiry_date date,cost decimal(4),price decimal(4),category char(20),hsn_code integer(5),location char(55),availability integer,in_Stock char(20))")

cur.execute("create table clothing (pdt_name char(50),pdt_size integer,specifications char(250),mfd date,expiry_date date,cost decimal(4),price decimal(4),category char(20),hsn_code integer(5),location char(55),availability integer,in_Stock char(20))")

cur.execute("create table beauty_store (pdt_name char(50),pdt_size integer,specifications char(250),mfd date,expiry_date date,cost decimal(4),price decimal(4),category char(20),hsn_code integer(5),location char(55),availability integer,in_Stock char(20))")

cur.execute("create table stationary (pdt_name char(50),pdt_size integer,specifications char(250),mfd date,expiry_date date,cost decimal(4),price decimal(4),category char(20),hsn_code integer(5),location char(55),availability integer,in_Stock char(20))")

cur.execute("create table schoolneeds (pdt_name char(50),pdt_size integer,specifications char(250),mfd date,expiry_date date,cost decimal(4),price decimal(4),category char(20),hsn_code integer(5),location char(55),availability integer,in_Stock char(20))")

print("success")"""
```

```
def insert_rec():
        print('''1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds''')
    ch=int(input("enter your choice:")
 if ch==1:
        pName=input("Enter Product Name:")
        pQty=int(input("Enter Product Qty:"))
        spec=input("enter product details:")
        mfd=input("enter mfd:")
        expd=input("expiry date:")
        cp=int(input("enter cost price:"))
        sp=int(input("Enter selling Price:"))
        cat=input("enter category:")
        hsn=int(input("enter hsn code:"))
        loc=input("enter location:")
        ava=int(input("enter availability:"))
        isl=input("enter whether pdt is in stock or not (y/n):")
        #create the Insert query
            sql = "insert into grocery values ('{}',{},'{}','{}','{}',{},{},'{}',{},'{}',{},'{}')".
                 format(pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)
```

```
          #Execute query with values
           cur.execute(sql)
           #commit for permanent storage in database
           x.commit()
if ch==2:

           pName=input("Enter Product Name:")
           pQty=int(input("Enter Product Qty:"))
           spec=input("enter product details:")
           mfd=input("enter mfd:")
           expd=input("expiry date:")
           cp=int(input("enter cost price:"))
           sp=int(input("Enter selling Price:"))
           cat=input("enter category:")
           hsn=int(input("enter hsn code:"))
           loc=input("enter location:")
           ava=int(input("enter availability:"))
           isl=input("enter whether pdt is in stock or not (y/n):")
           #create the Insert query
              sql = "insert into electronic values ('{}',{},'{}','{}','{}',{},{},'{}',{},'{}',{},'{}')".
                     format(pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)
           #create list of values typed from user to insert in Product table
           #Execute query with values
           cur.execute(sql)
           #commit for permanent storage in database
```

```
        x.commit()
    if ch==3:

        pName=input("Enter Product Name:")
        pQty=int(input("Enter Product Qty:"))
        spec=input("enter product details:")
        mfd=input("enter mfd:")
        expd=input("expiry date:")
        cp=int(input("enter cost price:"))
        sp=int(input("Enter selling Price:"))
        cat=input("enter category:")
        hsn=int(input("enter hsn code:"))
        loc=input("enter location:")
        ava=int(input("enter availability:"))
        isl=input("enter whether pdt is in stock or not (y/n):")
        #create the Insert query
           sql = "insert into clothing values ('{}',{},'{}','{}','{}',{},{},'{}',{},'{}',{},'{}')".
               format(pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)
        #create list of values typed from user to insert in Product table
        #Execute query with values
        cur.execute(sql)
        #commit for permanent storage in database
        x.commit()
```

```
if ch==4:

        pName=input("Enter Product Name:")

        pQty=int(input("Enter Product Qty:"))

        spec=input("enter product details:")

        mfd=input("enter mfd:")

        expd=input("expiry date:")

        cp=int(input("enter cost price:"))

        sp=int(input("Enter selling Price:"))

        cat=input("enter category:")

        hsn=int(input("enter hsn code:"))

        loc=input("enter location:")

        ava=int(input("enter availability:"))

        isl=input("enter whether pdt is in stock or not (y/n):")

        #create the Insert query

        sql = "insert into beauty_store values ('{}',{},'{}','{}','{}',{},{},'{}',{},'{}',{},'{}')".
                format(pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)

        #create list of values typed from user to insert in Product table

        val = (pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)

        #Execute query with values

        cur.execute(sql)

        #commit for permanent storage in database

        x.commit()
```

```
if ch==5:

        pName=input("Enter Product Name:")
        pQty=int(input("Enter Product Qty:"))
        spec=input("enter product details:")
        mfd=input("enter mfd:")
        expd=input("expiry date:")
        cp=int(input("enter cost price:"))
        sp=int(input("Enter selling Price:"))
        cat=input("enter category:")
        hsn=input("enter hsn code:")
        loc=input("enter location:")
        ava=int(input("enter availability:"))
        isl=input("enter whether pdt is in stock or not (y/n):")
        #create the Insert query
       sql = "insert into stationary values ('{}',{},'{}','{}','{}',{},{},'{}',{},'{}',{},'{}')".
                    format(pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)
        #create list of values typed from user to insert in Product table
        #Execute query with values
        cur.execute(sql)
        #commit for permanent storage in database
        x.commit()
```

```
if ch==6:

        pName=input("Enter Product Name:")

        pQty=int(input("Enter Product Qty:"))

        spec=input("enter product details:")

        mfd=input("enter mfd:")

        expd=input("expiry date:")

        cp=int(input("enter cost price:"))

        sp=int(input("Enter selling Price:"))

        cat=input("enter category:")

        hsn=int(input("enter hsn code:"))

        loc=input("enter location:")

        ava=int(input("enter availability:"))

        isl=input("enter whether pdt is in stock or not (y/n):")

        #create the Insert query

        sql = "insert into schoolneeds values ('{}',{},'{}','{}','{}',{},{},'{}',{},'{}',{},'{}')".
                  format(pName,pQty,spec,mfd,expd,cp,sp,cat,hsn,loc,ava,isl)

        #create list of values typed from user to insert in Product table

        #Execute query with values

        cur.execute(sql)

        #commit for permanent storage in database

        x.commit()
```

```
def update():

    print('''1.to update in grocery
2.to update in electronics
3.to update in clothing
4.to update in beauty_store
5.to update in stationary
6.to update in schoolneeds''')
    ch=int(input("enter your choice:"))
    if ch==1:
      print("which column you want to update a) pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:")
      ch=input("enter any letter in a-k:")
      if ch=='a' or ch=='A':
        hsn=int(input("enter hsn:"))
        pname=input("enter pname:")
       cur.execute("update grocery set pdt_name='{}'where hsn_code={}".format(pname,hsn))
       x.commit()
        if ch=='b' or ch=='B':
                hsn=int(input("enter hsn:"))
                pqty=int(input("enter pqty:"))
                cur.execute("update grocery set pdt_size={} where hsn_code={}".format(pqty,hsn))
                x.commit()
          if ch=='c' or ch=="C":
                hsn=int(input("enter hsn:"))

                spec=input("enter spec:")

                cur.execute("update grocery set specifications='{}' where
hsn_code={}".format(spec,hsn))

                x.commit()

          if ch=='d' or ch=="D":

                hsn=int(input("enter hsn:"))

                mfd=input("enter date in YYYY-MM-DD format:")

                cur.execute("update grocery set mfd='{}' where hsn_code={}".format(mfd,hsn))

                x.commit()

          if ch=='e' or ch=="E":

                hsn=int(input("enter hsn:"))

                expd=input("enter expd date:")

                cur.execute("update grocery set expiry_date='{}' where
hsn_code={}".format(expd,hsn))

                x.commit()

          if ch=='f' or ch=='F':

                hsn=int(input("enter hsn:"))

                cp=int(input("enter cost price:"))

                cur.execute("update grocery set cost={} where hsn_code={}".format(cp,hsn))

                x.commit()

          if ch=='g' or ch=="G":

                hsn=int(input("enter hsn:"))

                sp=int(input("enter selling price:"))

                cur.execute("update grocery set price={} where hsn_code={}".format(sp,hsn))
                x.commit()
          if ch=='h' or ch=="H":
                hsn=int(input("enter hsn:"))
                cat=input("enter category:")
                cur.execute("update grocery set category='{}' where hsn_code={}".format(cat,hsn))
                x.commit()
          if ch=='i' or ch=='I': #j=ava k=isl
                hsn=int(input("enter hsn:"))
                loc=input("enter location:")
                cur.execute("update grocery set location='{}' where hsn_code={}".format(loc,hsn))
                x.commit()
          if ch=='j' or ch=="J":
                hsn=int(input("enter hsn:"))
                ava=int(input("enter availability:"))
                cur.execute("update grocery set availability={} where hsn_code={}".format(ava,hsn))
                x.commit()
          if ch=='k' or ch=='K':
                hsn=int(input("enter hsn:"))
                isl=input("enter whether pdt is in stock or not:")
                cur.execute("update grocery set in_stock={} where hsn_code={}".format(isl,hsn))
                x.commit()
        if ch==2:
```

```
    print("which column you want to update a)
pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:")

    ch=input("enter any letter in a-k:")

    if ch=='a' or ch=='A':

        hsn=int(input("enter hsn:"))

        pname=input("enter pname:")

        cur.execute("update electronics set pdt_name='{}'where
hsn_code={}".format(pname,hsn))

        x.commit()

    if ch=='b' or ch=='B':

        hsn=int(input("enter hsn:"))

        pqty=int(input("enter pqty:"))

        cur.execute("update electronics set pdt_size={} where
hsn_code={}".format(pqty,hsn))

        x.commit()

    if ch=='c' or ch=="C":

        hsn=int(input("enter hsn:"))

        spec=input("enter spec:")

        cur.execute("update electronics set specifications='{}' where
hsn_code={}".format(spec,hsn))

        x.commit()

    if ch=='d' or ch=="D":

        hsn=int(input("enter hsn:"))

        mfd=input("enter date in YYYY-MM-DD format:")

        cur.execute("update electronics set mfd='{}' where
hsn_code={}".format(mfd,hsn))
```

```
        x.commit()
    if ch=='e' or ch=="E":
        hsn=int(input("enter hsn:"))
        expd=input("enter expd date:")
        cur.execute("update electronics set expiry_date='{}' where hsn_code={}".format(expd,hsn))
        x.commit()
    if ch=='f' or ch=='F':
        hsn=int(input("enter hsn:"))
        cp=int(input("enter cost price:"))
        cur.execute("update electronics set cost={} where hsn_code={}".format(cp,hsn))
        x.commit()
    if ch=='g' or ch=="G":
        hsn=int(input("enter hsn:"))
        sp=int(input("enter selling price:"))
        cur.execute("update electronics set price={} where hsn_code={}".format(sp,hsn))
        x.commit()
    if ch=='h' or ch=="H":
        hsn=int(input("enter hsn:"))
        cat=input("enter category:")
        cur.execute("update electronics set category='{}' where hsn_code={}".format(cat,hsn))
        x.commit()
    if ch=='i' or ch=='I': #j=ava k=isl
        hsn=int(input("enter hsn:"))
```

```
            loc=input("enter location:")

            cur.execute("update electronics set location='{}' where
hsn_code={}".format(loc,hsn))

            x.commit()

        if ch=='j' or ch=="J":

            hsn=int(input("ent

            x.commit()

er hsn:"))

            ava=int(input("enter availability:"))

            cur.execute("update electronics set availability={} where
hsn_code={}".format(ava,hsn))

            x.commit()

        if ch=='k' or ch=='K':

            hsn=int(input("enter hsn:"))

            isl=input("enter whether pdt is in stock or not:")

            cur.execute("update electronics set in_stock={} where
hsn_code={}".format(isl,hsn))

            x.commit()

    elif ch==3:

        print("which column you want to update a)
pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:")

        ch=input("enter any letter in a-k:")

        if ch=='a' or ch=='A':

            hsn=int(input("enter hsn:"))

            pname=input("enter pname:")
            cur.execute("update clothing set pdt_name='{}'where
hsn_code={}".format(pname,hsn))

            x.commit()

        if ch=='b' or ch=='B':

            hsn=int(input("enter hsn:"))

            pqty=int(input("enter pqty:"))

            cur.execute("update clothing set pdt_size={} where
hsn_code={}".format(pqty,hsn))

            x.commit()

        if ch=='c' or ch=="C":

            hsn=int(input("enter hsn:"))

            spec=input("enter spec:")

            cur.execute("update clothing set specifications='{}' where
hsn_code={}".format(spec,hsn))

            x.commit()

        if ch=='d' or ch=="D":

            hsn=int(input("enter hsn:"))

            mfd=input("enter date in YYYY-MM-DD format:")

            cur.execute("update clothing set mfd='{}' where hsn_code={}".format(mfd,hsn))

            x.commit()

        if ch=='e' or ch=="E":

            hsn=int(input("enter hsn:"))

            expd=input("enter expd date:")

            cur.execute("update clothing set expiry_date='{}' where
hsn_code={}".format(expd,hsn))
```

```
        x.commit()
    if ch=='f' or ch=='F':
        hsn=int(input("enter hsn:"))
        cp=int(input("enter cost price:"))
        cur.execute("update clothing set cost={} where hsn_code={}".format(cp,hsn))
        x.commit()
    if ch=='g' or ch=="G":
        hsn=int(input("enter hsn:"))
        sp=int(input("enter selling price:"))
        cur.execute("update clothing set price={} where hsn_code={}".format(sp,hsn))
        x.commit()
    if ch=='h' or ch=="H":
        hsn=int(input("enter hsn:"))
        cat=input("enter category:")
        cur.execute("update clothing set category='{}' where
hsn_code={}".format(cat,hsn))
        x.commit()
    if ch=='i' or ch=='I':
        hsn=int(input("enter hsn:"))
        loc=input("enter location:")
        cur.execute("update clothing set location='{}' where
hsn_code={}".format(loc,hsn))
        x.commit()
    if ch=='j' or ch=="J":
        hsn=int(input("enter hsn:"))
```

```
            ava=int(input("enter availability:"))
            cur.execute("update clothing set availability={} where hsn_code={}".format(ava,hsn))
            x.commit()
        if ch=='k' or ch=='K':
            hsn=int(input("enter hsn:"))
            isl=input("enter whether pdt is in stock or not:")
            cur.execute("update clothing set in_stock={} where hsn_code={}".format(isl,hsn))
            x.commit()
    elif ch==4:
        print("which column you want to update a) pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:")
        ch=input("enter any letter in a-k:")
        if ch=='a' or ch=='A':
            hsn=int(input("enter hsn:"))
            pname=input("enter pname:")
            cur.execute("update beauty_store set pdt_name='{}'where hsn_code={}".format(pname,hsn))
            x.commit()
        if ch=='b' or ch=='B':
            hsn=int(input("enter hsn:"))
            pqty=int(input("enter pqty:"))
            cur.execute("update beauty_store set pdt_size={} where hsn_code={}".format(pqty,hsn))
            x.commit()
        if ch=='c' or ch=="C":
            hsn=int(input("enter hsn:"))
            spec=input("enter spec:")
            cur.execute("update beauty_store set specifications='{}' where 
hsn_code={}".format(spec,hsn))
            x.commit()
        if ch=='d' or ch=="D":
            hsn=int(input("enter hsn:"))
            mfd=input("enter date in YYYY-MM-DD format:")
            cur.execute("update beauty_store set mfd='{}' where 
hsn_code={}".format(mfd,hsn))
            x.commit()
        if ch=='e' or ch=="E":
            hsn=int(input("enter hsn:"))
            expd=input("enter expd date:")
            cur.execute("update beauty_store set expiry_date='{}' where 
hsn_code={}".format(expd,hsn))
            x.commit()
        if ch=='f' or ch=='F':
            hsn=int(input("enter hsn:"))
            cp=int(input("enter cost price:"))
            cur.execute("update beauty_store set cost={} where 
hsn_code={}".format(cp,hsn))
            x.commit()
        if ch=='g' or ch=="G":
```

```
        hsn=int(input("enter hsn:"))
        sp=int(input("enter selling price:"))
        cur.execute("update beauty_store set price={} where hsn_code={}".format(sp,hsn))
        x.commit()
    if ch=='h' or ch=="H":
        hsn=int(input("enter hsn:"))
        cat=input("enter category:")
        cur.execute("update beauty_store set category='{}' where hsn_code={}".format(cat,hsn))
        x.commit()
    if ch=='i' or ch=='I':
        hsn=int(input("enter hsn:"))
        loc=input("enter location:")
        cur.execute("update beauty_store set location='{}' where hsn_code={}".format(loc,hsn))
        x.commit()
    if ch=='j' or ch=="J":
        hsn=int(input("enter hsn:"))
        ava=int(input("enter availability:"))
        cur.execute("update beauty_store set availability={} where hsn_code={}".format(ava,hsn))
        x.commit()
    if ch=='k' or ch=='K':
        hsn=int(input("enter hsn:"))
```

```
            isl=input("enter whether pdt is in stock or not:")
            cur.execute("update beauty_store set in_stock={} where hsn_code={}".format(isl,hsn))
            x.commit()
    elif ch==5:
        print("which column you want to update a) pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:")
        ch=input("enter any letter in a-k:")
        if ch=='a' or ch=='A':
            hsn=int(input("enter hsn:"))
            pname=input("enter pname:")
            cur.execute("update stationary set pdt_name='{}'where hsn_code={}".format(pname,hsn))
            x.commit()
        if ch=='b' or ch=='B':
            hsn=int(input("enter hsn:"))
            pqty=int(input("enter pqty:"))
            cur.execute("update stationary set pdt_size={} where hsn_code={}".format(pqty,hsn))
            x.commit()
        if ch=='c' or ch=="C":
            hsn=int(input("enter hsn:"))
            spec=input("enter spec:")
            cur.execute("update stationary set specifications='{}' where hsn_code={}".format(spec,hsn))
            x.commit()
        if ch=='d' or ch=="D":
            hsn=int(input("enter hsn:"))
            mfd=input("enter date in YYYY-MM-DD format:")
            cur.execute("update stationary set mfd='{}' where hsn_code={}".format(mfd,hsn))
            x.commit()
        if ch=='e' or ch=="E":
            hsn=int(input("enter hsn:"))
            expd=input("enter expd date:")
            cur.execute("update stationary set expiry_date='{}' where
    hsn_code={}".format(expd,hsn))
            x.commit()
        if ch=='f' or ch=='F':
            hsn=int(input("enter hsn:"))
            cp=int(input("enter cost price:"))
            cur.execute("update stationary set cost={} where hsn_code={}".format(cp,hsn))
            x.commit()
        if ch=='g' or ch=="G":
            hsn=int(input("enter hsn:"))
            sp=int(input("enter selling price:"))
            cur.execute("update stationary set price={} where hsn_code={}".format(sp,hsn))
            x.commit()
        if ch=='h' or ch=="H":
            hsn=int(input("enter hsn:"))
            cat=input("enter category:")
```

```
            cur.execute("update stationary set category='{}' where
hsn_code={}".format(cat,hsn))
            x.commit()
        if ch=='i' or ch=='I':
            hsn=int(input("enter hsn:"))
            loc=input("enter location:")
            cur.execute("update stationary set location='{}' where
hsn_code={}".format(loc,hsn))
            x.commit()
        if ch=='j' or ch=="J":
            hsn=int(input("enter hsn:"))
            ava=int(input("enter availability:"))
            cur.execute("update stationary set availability={} where
hsn_code={}".format(ava,hsn))
            x.commit()
        if ch=='k' or ch=='K':
            hsn=int(input("enter hsn:"))
            isl=input("enter whether pdt is in stock or not:")
            cur.execute("update stationary set in_stock={} where
hsn_code={}".format(isl,hsn))
            x.commit()
    elif ch==6:
        print("which column you want to update a)
pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:")
        ch=input("enter any letter in a-k:")
        if ch=='a' or ch=='A':
```

```
        hsn=int(input("enter hsn:"))
        pname=input("enter pname:")
        cur.execute("update schoolneeds set pdt_name='{}'where
hsn_code={}".format(pname,hsn))
        x.commit()
    if ch=='b' or ch=='B':
        hsn=int(input("enter hsn:"))
        pqty=int(input("enter pqty:"))
        cur.execute("update schoolneeds set pdt_size={} where
hsn_code={}".format(pqty,hsn))
        x.commit()
    if ch=='c' or ch=="C":
        hsn=int(input("enter hsn:"))
        spec=input("enter spec:")
        cur.execute("update schoolneeds set specifications='{}' where
hsn_code={}".format(spec,hsn))
        x.commit()
    if ch=='d' or ch=="D":
        hsn=int(input("enter hsn:"))
        mfd=input("enter date in YYYY-MM-DD format:")
        cur.execute("update schoolneeds set mfd='{}' where
hsn_code={}".format(mfd,hsn))
        x.commit()
    if ch=='e' or ch=="E":
        hsn=int(input("enter hsn:"))
```

```
            expd=input("enter expd date:")

            cur.execute("update schoolneeds set expiry_date='{}' where
hsn_code={}".format(expd,hsn))

            x.commit()

        if ch=='f' or ch=='F':

            hsn=int(input("enter hsn:"))

            cp=int(input("enter cost price:"))

            cur.execute("update schoolneeds set cost={} where hsn_code={}".format(cp,hsn))

            x.commit()

        if ch=='g' or ch=="G":

            hsn=int(input("enter hsn:"))

            sp=int(input("enter selling price:"))

            cur.execute("update schoolneeds set price={} where
hsn_code={}".format(sp,hsn))

            x.commit()

        if ch=='h' or ch=="H":

            hsn=int(input("enter hsn:"))

            cat=input("enter category:")

            cur.execute("update schoolneeds set category='{}' where
hsn_code={}".format(cat,hsn))

            x.commit()

        if ch=='i' or ch=='I':

            hsn=int(input("enter hsn:"))

            loc=input("enter location:")
            cur.execute("update schoolneeds set location='{}' where
hsn_code={}".format(loc,hsn))

            x.commit()

        if ch=='j' or ch=="J":

            hsn=int(input("enter hsn:"))

            ava=int(input("enter availability:"))

            cur.execute("update schoolneeds set availability={} where
hsn_code={}".format(ava,hsn))

            x.commit()

        if ch=='k' or ch=='K':

            hsn=int(input("enter hsn:"))

            isl=input("enter whether pdt is in stock or not:")

            cur.execute("update schoolneeds set in_stock={} where
hsn_code={}".format(isl,hsn))

            x.commit()

def display():

    print('''1.to display from grocery

2.to display from electronics

3.to display from clothing

4.to display from beauty_store

5.to display from stationary

6.to display from schoolneeds''')

    ch=int(input("enter choice 1-6:"))

    if ch==1:

        cur.execute("select * from grocery")
```

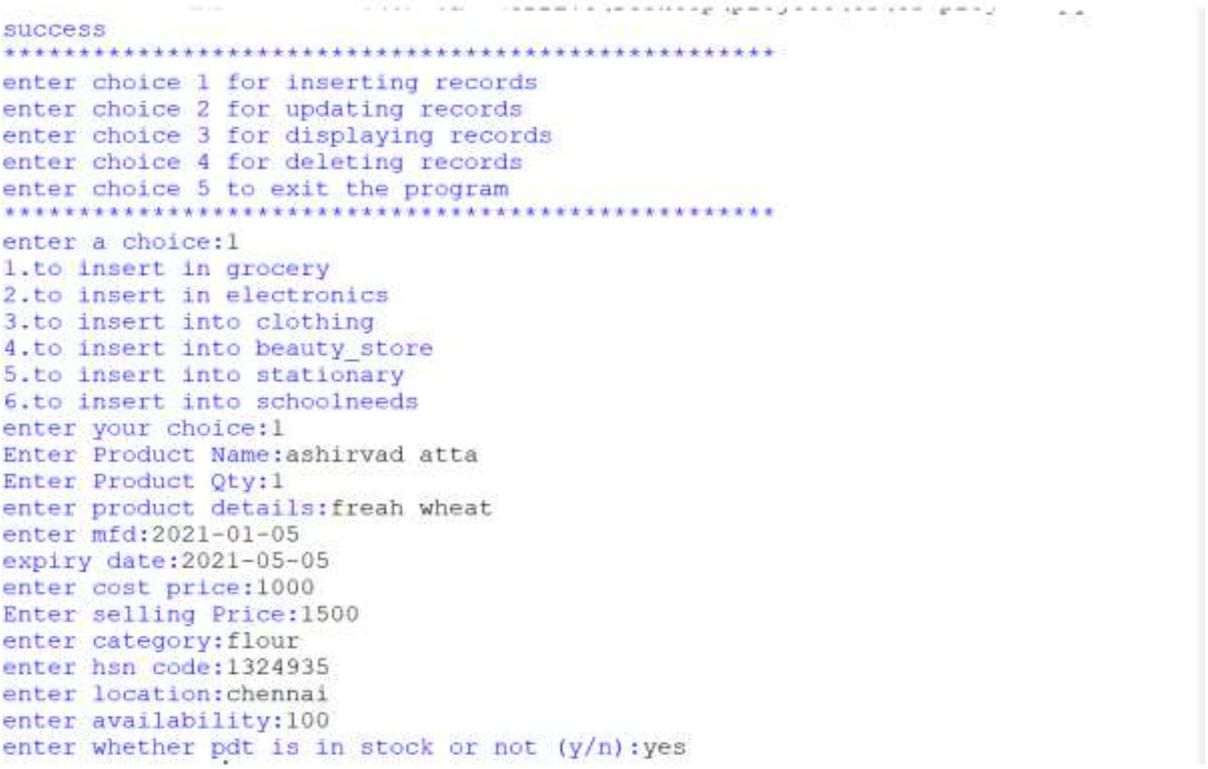
```
            x=cur.fetchall()

            print("-------------------------------------------------------------------------------------------
-------------------------------------------")

            print("prod name      Prod size    spec         mfd         expd        cp      sp    cat        hsn
loc   availability     in stock                              ")

            print("-------------------------------------------------------------------------------------------
-------------------------------------------")

            for i in x:

                 print(i[0],"      " ,i[1],"    "  ,i[2],   "     ",i[3],"       "  ,i[4],"     "  ,i[5],"    ",i[6],"
",i[7],"  ",i[8],"    "  ,i[9],"   "  ,i[10],"   "  ,i[11])


       elif ch==2:

            cur.execute("select * from electronics")

            x=cur.fetchall()

            print("-------------------------------------------------------------------------------------------
-------------------------------------------")

            print("prod name      Prod size    spec         mfd         expd        cp      sp    cat        hsn
loc   availability     in stock                              ")

            print("-------------------------------------------------------------------------------------------
-------------------------------------------")

            for i in x:

                 print(i[0],"      " ,i[1],"    "  ,i[2],   "     ",i[3],"       "  ,i[4],"     "  ,i[5],"    ",i[6],"
",i[7],"  ",i[8],"    "  ,i[9],"   "  ,i[10],"   "  ,i[11])



       elif ch==3:

            cur.execute("select * from clothing")
```

```
        x=cur.fetchall()

        print("------------------------------------------------------------------------------------------
------------------------------------------")

        print("prod name      Prod size    spec         mfd         expd       cp      sp    cat       hsn
loc   availability     in stock                              ")

        print("------------------------------------------------------------------------------------------
------------------------------------------")

        for i in x:

            print(i[0],"      " ,i[1],"    "  ,i[2],   "     ",i[3],"       "  ,i[4],"     "  ,i[5],"    ",i[6],"
",i[7],"  ",i[8],"    "  ,i[9],"   "  ,i[10],"   "  ,i[11])




    elif ch==4:

        cur.execute("select * from beauty_store")

        x=cur.fetchall()

        print("------------------------------------------------------------------------------------------
------------------------------------------")

        print("prod name      Prod size    spec         mfd         expd       cp      sp    cat       hsn
loc   availability     in stock                              ")

        print("------------------------------------------------------------------------------------------
------------------------------------------")

        for i in x:

            print(i[0],"      " ,i[1],"    "  ,i[2],   "     ",i[3],"       "  ,i[4],"     "  ,i[5],"    ",i[6],"
",i[7],"  ",i[8],"    "  ,i[9],"   "  ,i[10],"   "  ,i[11])




    elif ch==5:
        cur.execute("select * from stationary")

        x=cur.fetchall()

        print("-----------------------------------------------------------------------------------------------
-----------------------------------------------")

        print("prod name      Prod size    spec         mfd          expd        cp       sp    cat        hsn
loc   availability     in stock                              ")

        print("-----------------------------------------------------------------------------------------------
-----------------------------------------------")

        for i in x:

            print(i[0],"      " ,i[1],"    "  ,i[2],   "     ",i[3],"       "  ,i[4],"     "  ,i[5],"    ",i[6],"
",i[7],"  ",i[8],"    "  ,i[9],"   "  ,i[10],"   "  ,i[11])



    elif ch==6:

        cur.execute("select * from schoolneeds")

        x=cur.fetchall()

        print("-----------------------------------------------------------------------------------------------
-----------------------------------------------")

        print("prod name      Prod size    spec         mfd          expd        cp       sp    cat        hsn
loc   availability     in stock                              ")

        print("-----------------------------------------------------------------------------------------------
-----------------------------------------------")

        for i in x:

            print(i[0],"      " ,i[1],"    "  ,i[2],   "     ",i[3],"       "  ,i[4],"     "  ,i[5],"    ",i[6],"
",i[7],"  ",i[8],"    "  ,i[9],"   "  ,i[10],"   "  ,i[11])
```

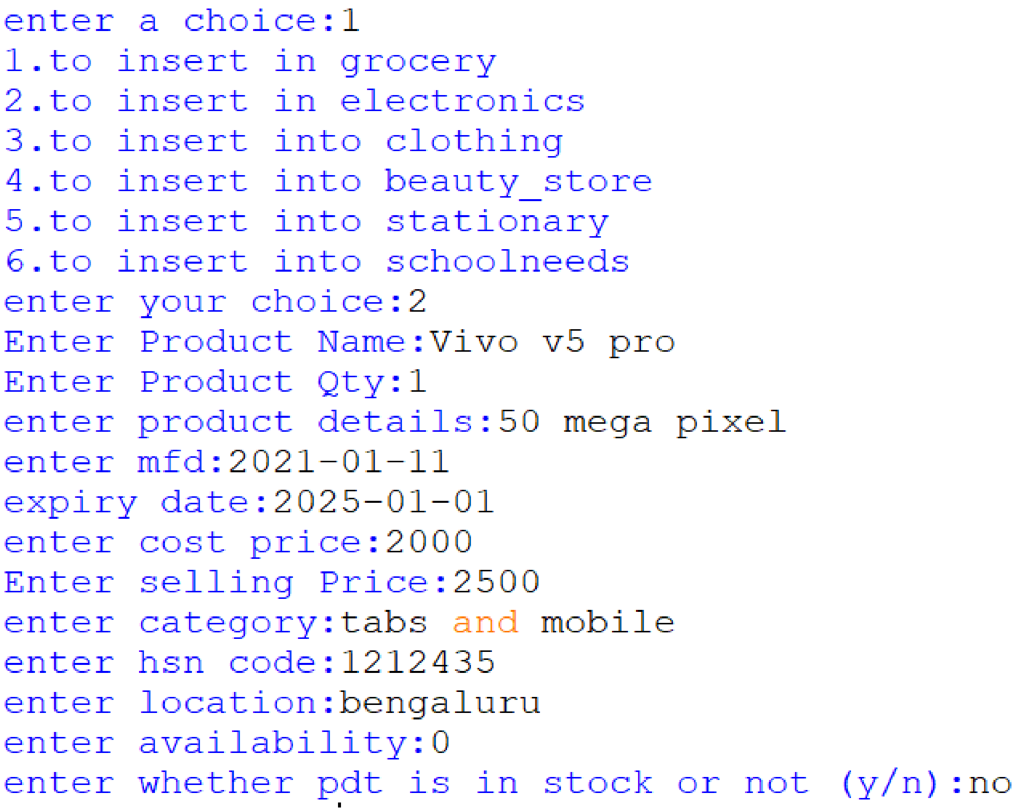
```
    else:
        print("invalid choice:")
def delete():
    print('''1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds''')
    ch=int(input("enter choice 1-6:"))
    if ch==1:
        hsn=int(input("enter hsn code:"))
        cur.execute("delete from grocery where hsn_code={}".format(hsn))
        x.commit()
    elif ch==2:
        hsn=int(input("enter hsn code:"))
        cur.execute("delete from electronics where hsn_code={}".format(hsn))
        x.commit()
    elif ch==3:
        hsn=int(input("enter hsn code:"))
        cur.execute("delete from clothing where hsn_code={}".format(hsn))
        x.commit()
    elif ch==4:
        hsn=int(input("enter hsn code:"))
        cur.execute("delete from beauty_store where hsn_code={}".format(hsn))
        x.commit()
    elif ch==5:
        hsn=int(input("enter hsn code:"))
        cur.execute("delete from stationary where hsn_code={}".format(hsn))
        x.commit()
    elif ch==6:
        hsn=int(input("enter hsn code:"))
        cur.execute("delete from schoolneeds where hsn_code={}".format(hsn))
        x.commit()
    else:
        print("invalid choice!!!!")


#_main_


print("""***************************************************
enter choice 1 for inserting records
enter choice 2 for updating records
enter choice 3 for displaying records
enter choice 4 for deleting records
enter choice 5 to exit the program
******************************************************""")
```

```
while True:

    c=int(input("enter a choice:"))

    if c==1:

        insert_rec()

    elif c==2:

        update()

    elif c==3:

        display()

    elif c==4:

        delete()

    elif c==5:

        print("exiting the program thanks for visiting :) !!")

        break

else:

    print(":)")
```

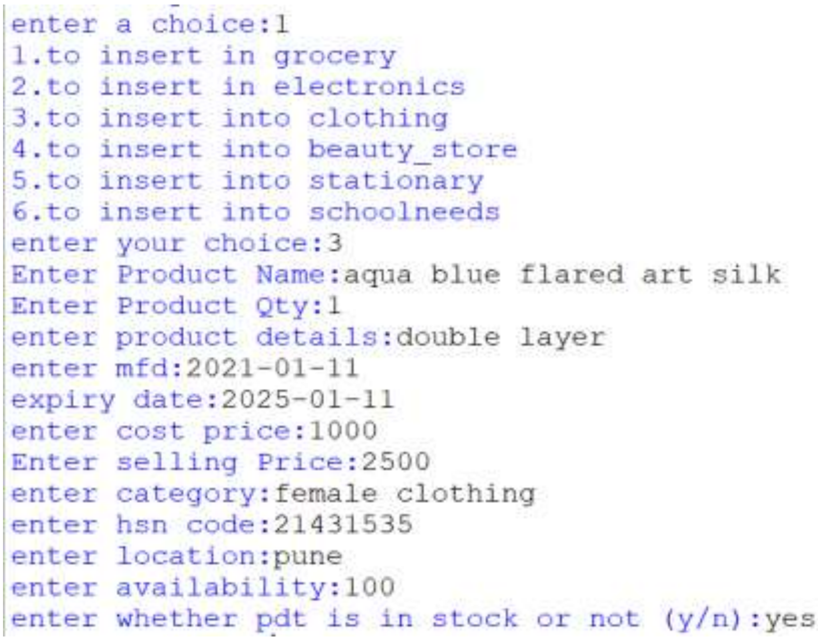
OUTPUT SCREEN



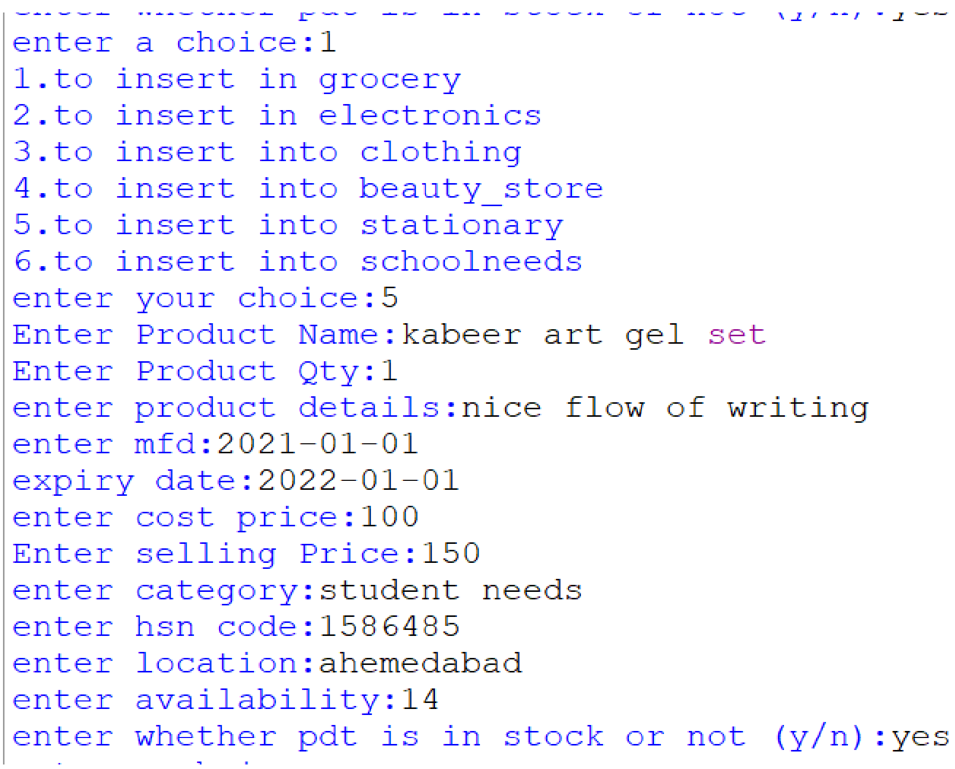
```
success
****************************************************
enter choice 1 for inserting records
enter choice 2 for updating records
enter choice 3 for displaying records
enter choice 4 for deleting records
enter choice 5 to exit the program
****************************************************
enter a choice:1
1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds
enter your choice:1
Enter Product Name:ashirvad atta
Enter Product Qty:1
enter product details:freah wheat
enter mfd:2021-01-05
expiry date:2021-05-05
enter cost price:1000
Enter selling Price:1500
enter category:flour
enter hsn code:1324935
enter location:chennai
enter availability:100
enter whether pdt is in stock or not (y/n):yes
```



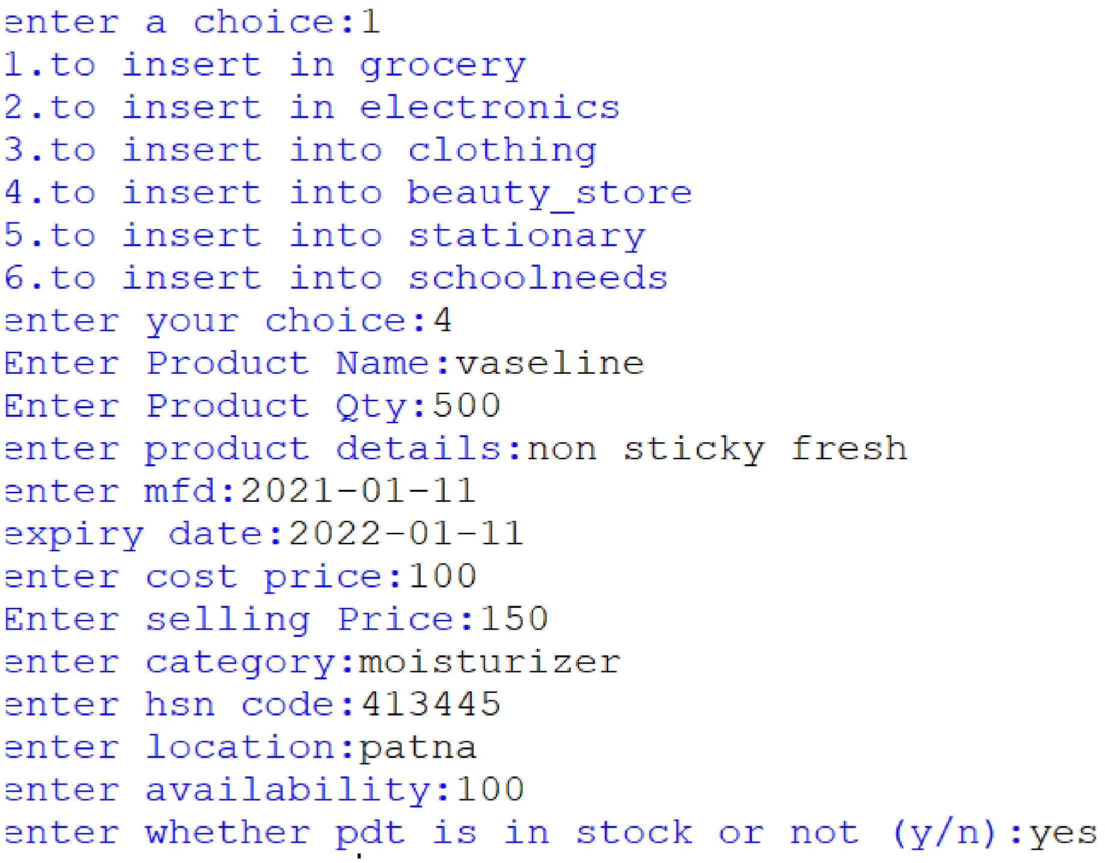
```
enter a choice:1
1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds
enter your choice:2
Enter Product Name:Vivo v5 pro
Enter Product Qty:1
enter product details:50 mega pixel
enter mfd:2021-01-11
expiry date:2025-01-01
enter cost price:2000
Enter selling Price:2500
enter category:tabs and mobile
enter hsn code:1212435
enter location:bengaluru
enter availability:0
enter whether pdt is in stock or not (y/n):no
```



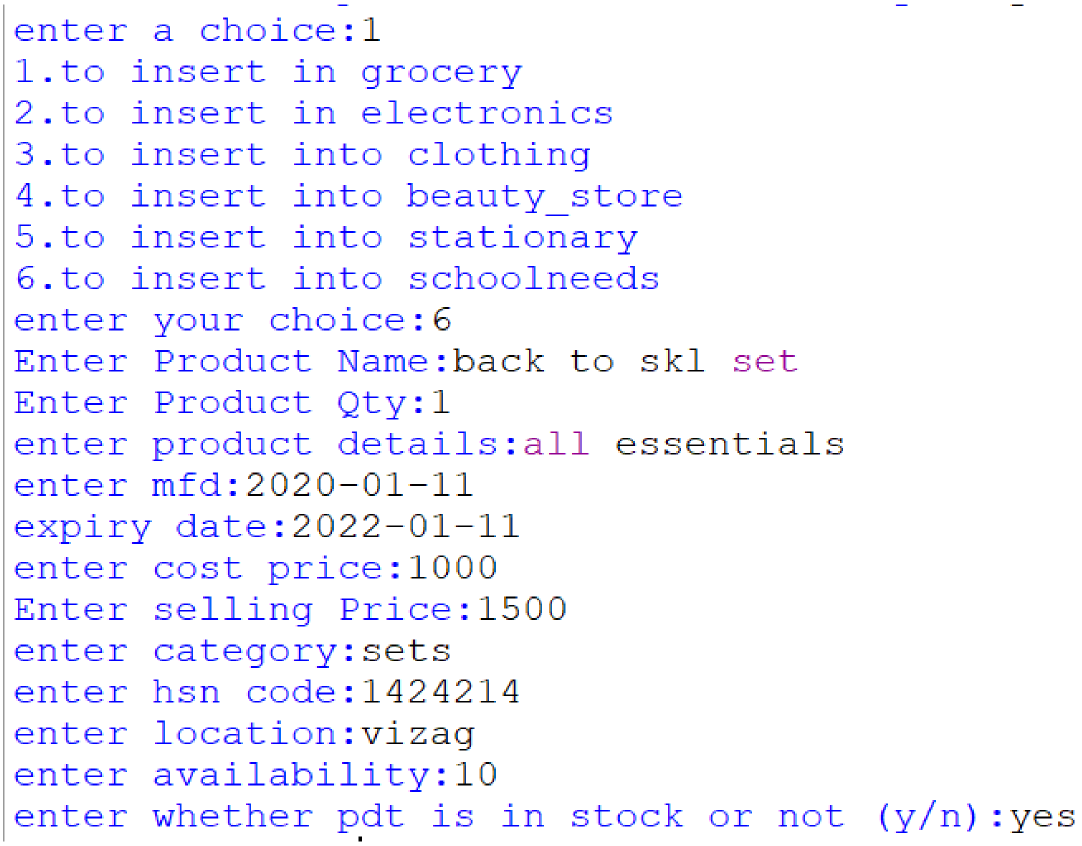
```
enter a choice:1
1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds
enter your choice:3
Enter Product Name:aqua blue flared art silk
Enter Product Qty:1
enter product details:double layer
enter mfd:2021-01-11
expiry date:2025-01-11
enter cost price:1000
Enter selling Price:2500
enter category:female clothing
enter hsn code:21431535
enter location:pune
enter availability:100
enter whether pdt is in stock or not (y/n):yes
```



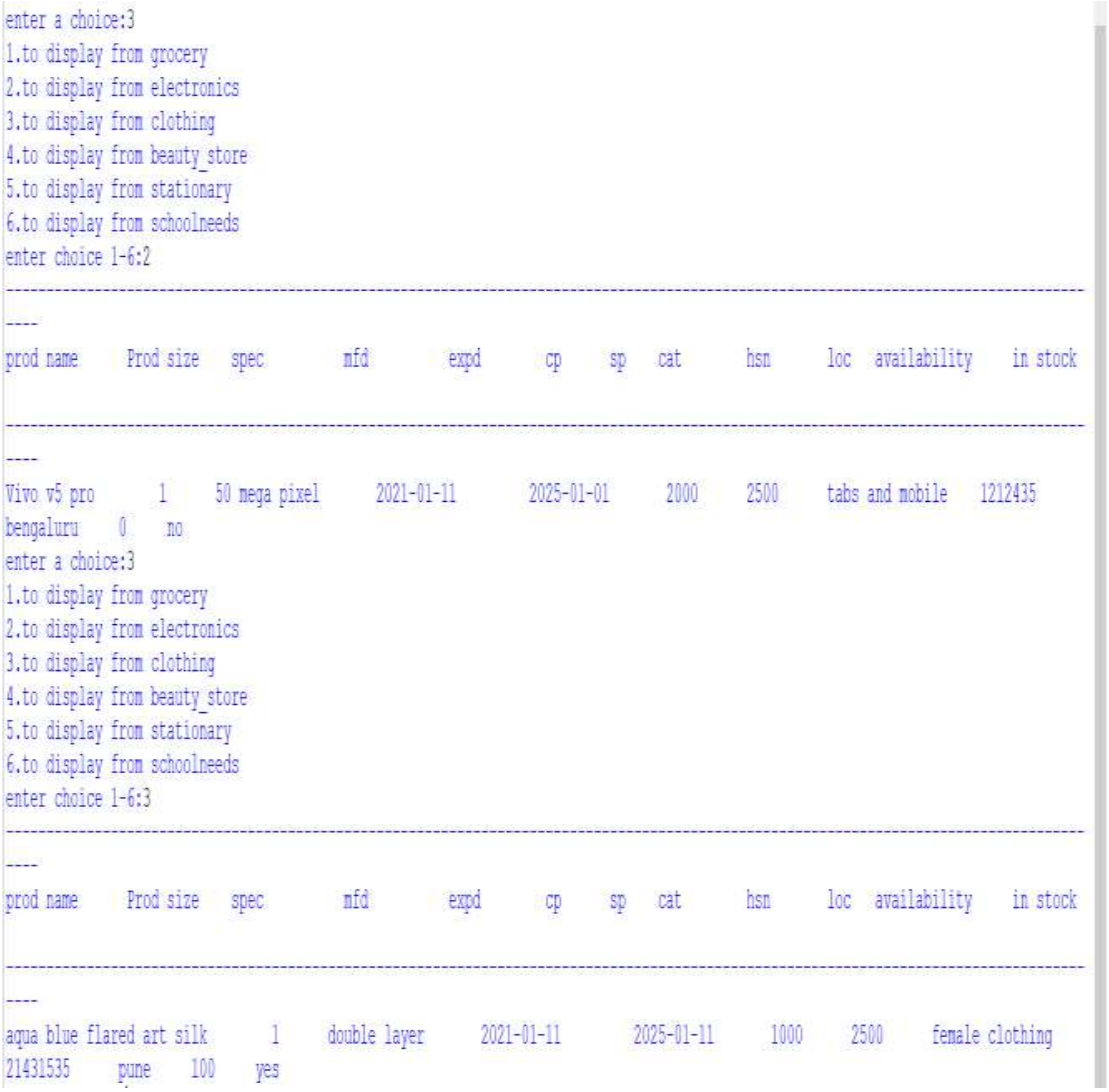
```
enter a choice:1
1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds
enter your choice:5
Enter Product Name:kabeer art gel set
Enter Product Qty:1
enter product details:nice flow of writing
enter mfd:2021-01-01
expiry date:2022-01-01
enter cost price:100
Enter selling Price:150
enter category:student needs
enter hsn code:1586485
enter location:ahemedabad
enter availability:14
enter whether pdt is in stock or not (y/n):yes
```



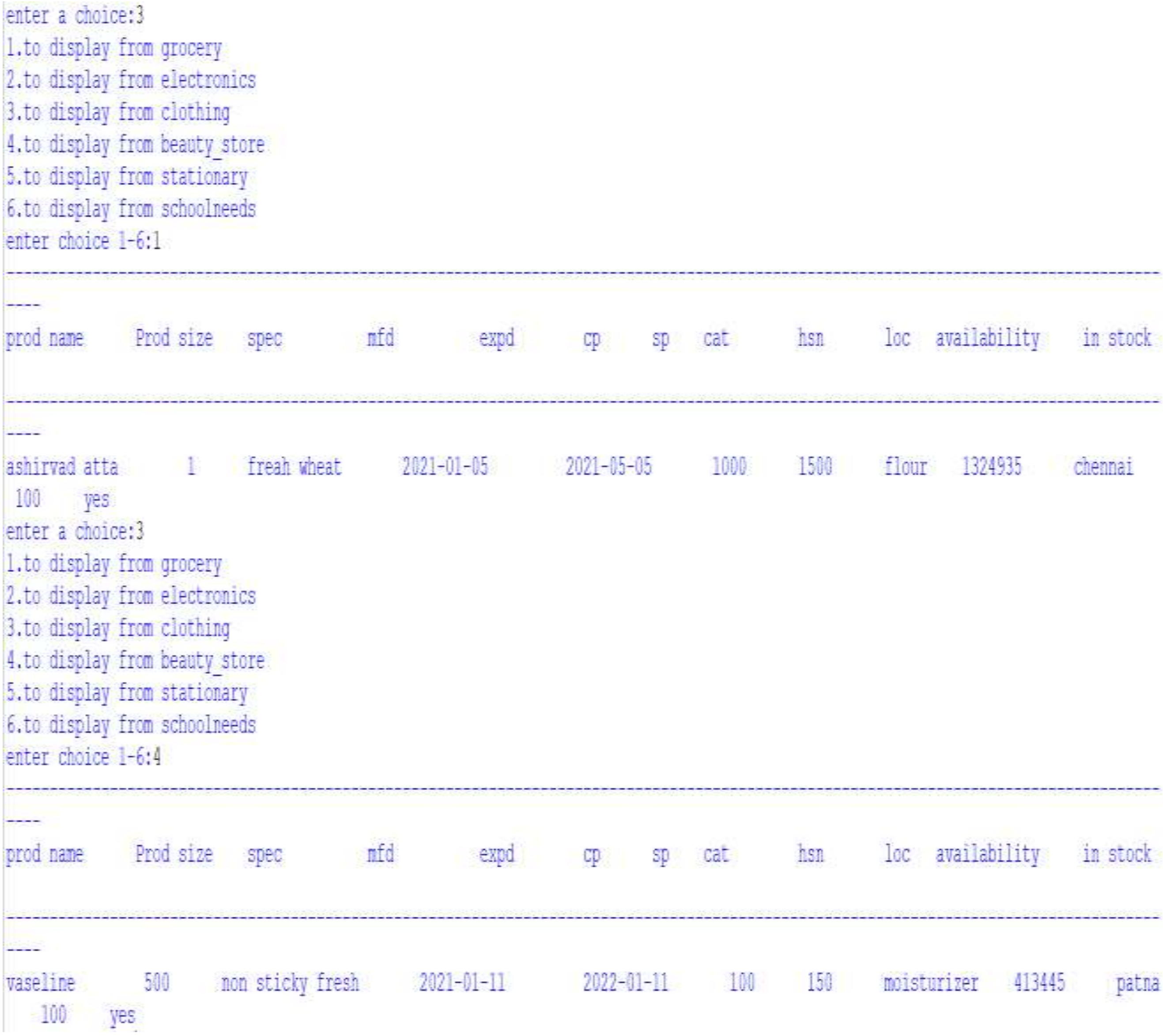
```
enter a choice:1
1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds
enter your choice:4
Enter Product Name:vaseline
Enter Product Qty:500
enter product details:non sticky fresh
enter mfd:2021-01-11
expiry date:2022-01-11
enter cost price:100
Enter selling Price:150
enter category:moisturizer
enter hsn code:413445
enter location:patna
enter availability:100
enter whether pdt is in stock or not (y/n):yes
```



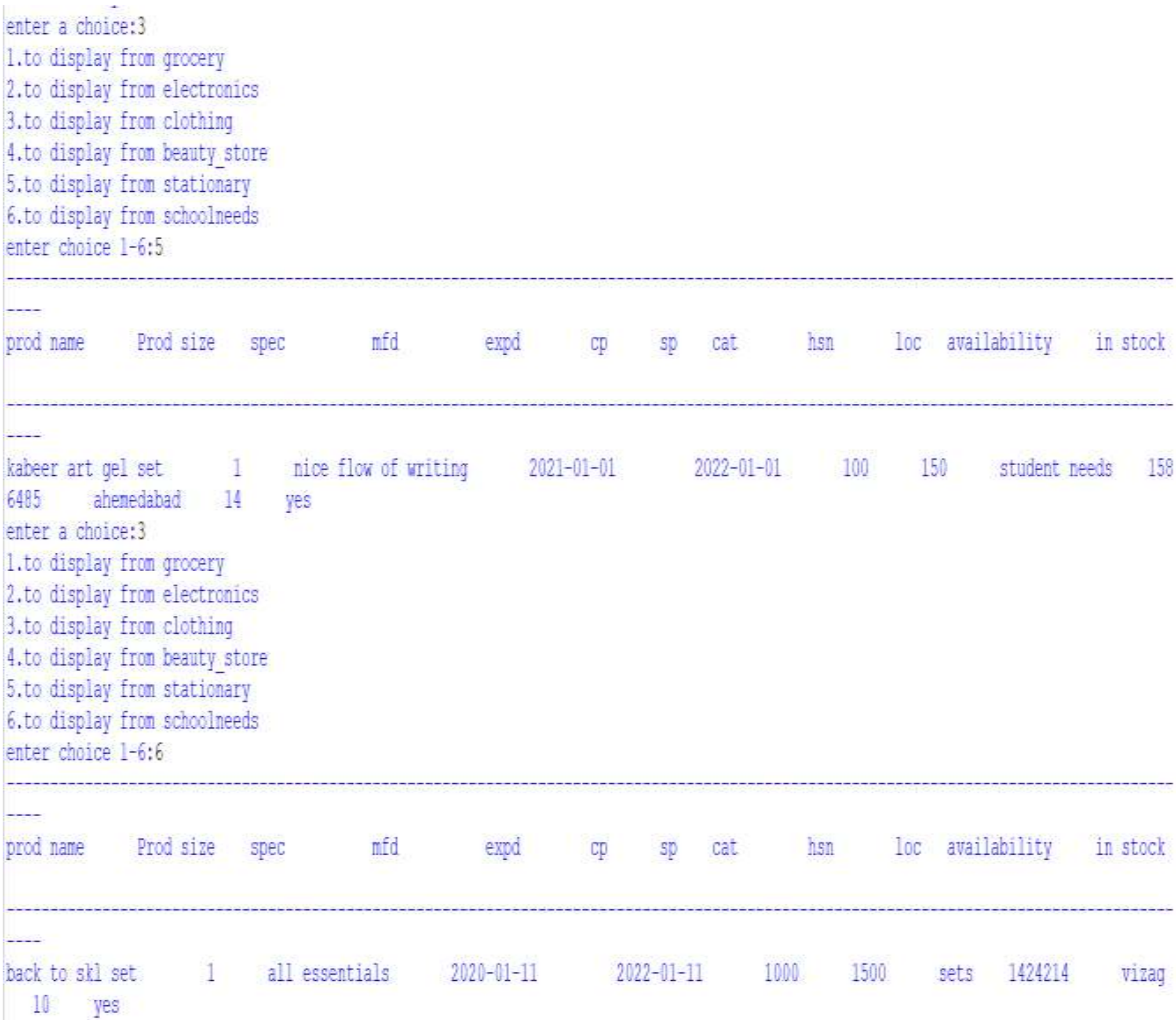
```
enter a choice:1
1.to insert in grocery
2.to insert in electronics
3.to insert into clothing
4.to insert into beauty_store
5.to insert into stationary
6.to insert into schoolneeds
enter your choice:6
Enter Product Name:back to skl set
Enter Product Qty:1
enter product details:all essentials
enter mfd:2020-01-11
expiry date:2022-01-11
enter cost price:1000
Enter selling Price:1500
enter category:sets
enter hsn code:1424214
enter location:vizag
enter availability:10
enter whether pdt is in stock or not (y/n):yes
```



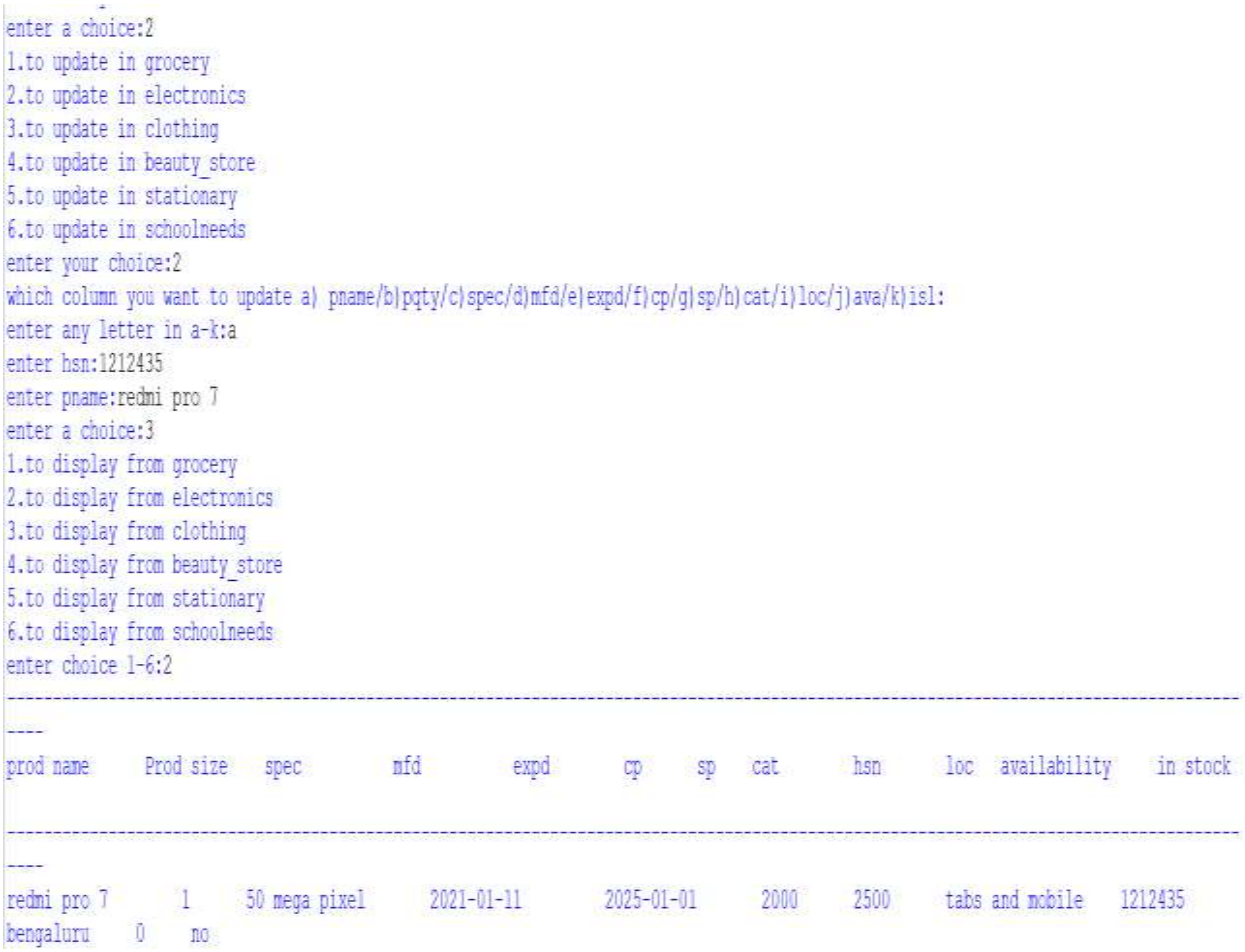
```
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:2
----------------------------------------------------------------------------------------------------------------------------------------------
----
prod name      Prod size    spec         mfd          expd        cp       sp    cat         hsn        loc   availability     in stock

----------------------------------------------------------------------------------------------------------------------------------------------
----
Vivo v5 pro        1      50 mega pixel      2021-01-11         2025-01-01       2000       2500       tabs and mobile     1212435
bengaluru     0      no
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:3
----------------------------------------------------------------------------------------------------------------------------------------------
----
prod name      Prod size    spec         mfd          expd        cp       sp    cat         hsn        loc   availability     in stock

----------------------------------------------------------------------------------------------------------------------------------------------
----
aqua blue flared art silk        1      double layer      2021-01-11         2025-01-11       1000       2500       female clothing
21431535       pune      100      yes
```



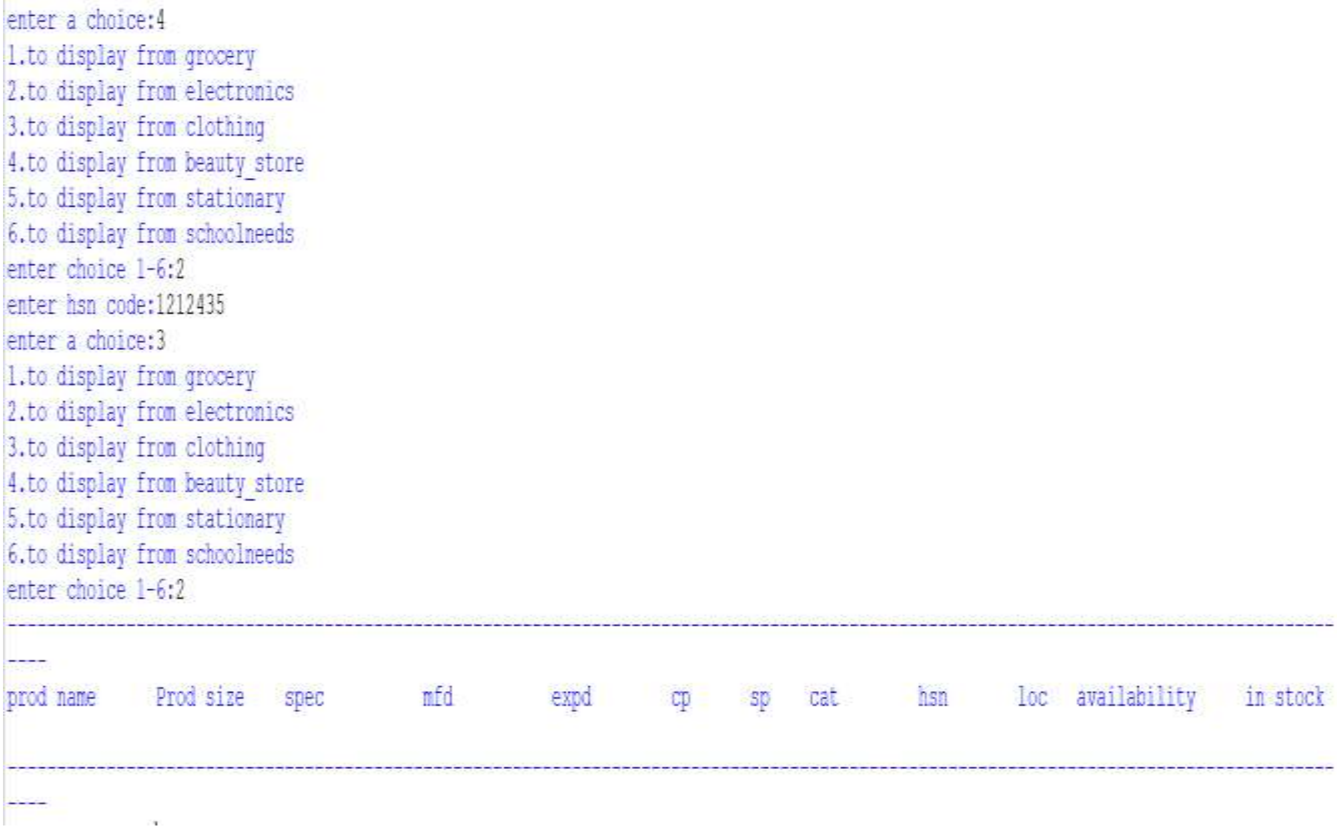
```
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:1
------------------------------------------------------------------------------------------------------------------------------------
----
prod name     Prod size    spec         mfd          expd         cp      sp    cat        hsn        loc   availability    in stock

------------------------------------------------------------------------------------------------------------------------------------
----
ashirvad atta       1      freah wheat       2021-01-05        2021-05-05       1000      1500      flour    1324935      chennai
 100     yes
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:4
------------------------------------------------------------------------------------------------------------------------------------
----
prod name     Prod size    spec         mfd          expd         cp      sp    cat        hsn        loc   availability    in stock

------------------------------------------------------------------------------------------------------------------------------------
----
vaseline        500     non sticky fresh      2021-01-11        2022-01-11       100      150      moisturizer    413445       patna
    100     yes
```



```
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:5
------------------------------------------------------------------------------------------------------------------------
----
prod name     Prod size    spec         mfd         expd       cp      sp    cat       hsn       loc   availability    in stock

------------------------------------------------------------------------------------------------------------------------
----
kabeer art gel set       1     nice flow of writing      2021-01-01        2022-01-01       100      150      student needs    158
6485      ahemedabad     14     yes
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:6
------------------------------------------------------------------------------------------------------------------------
----
prod name     Prod size    spec         mfd         expd       cp      sp    cat       hsn       loc   availability    in stock

------------------------------------------------------------------------------------------------------------------------
----
back to skl set       1     all essentials      2020-01-11        2022-01-11       1000      1500      sets    1424214      vizag
   10     yes
```

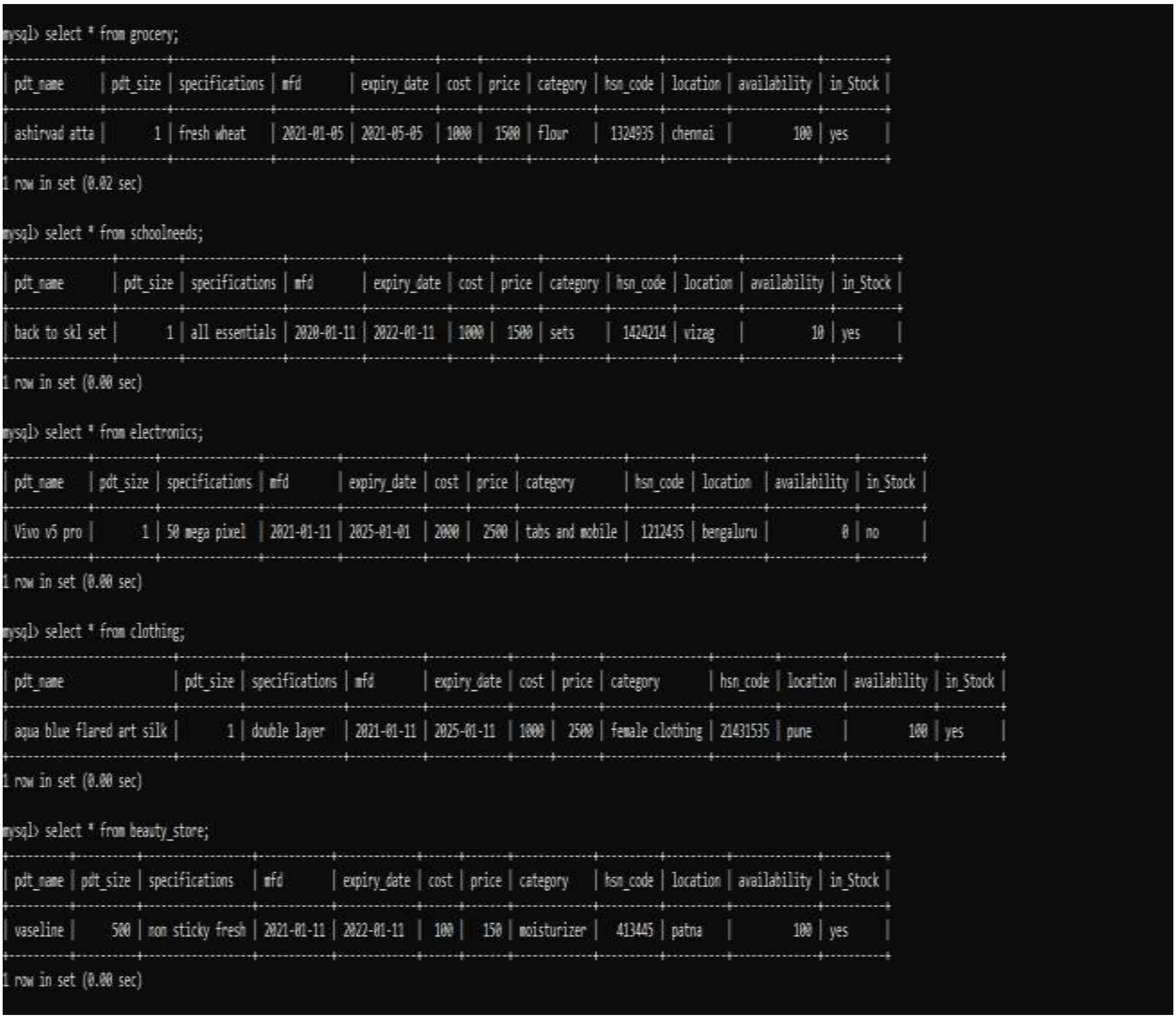


```
enter a choice:2
1.to update in grocery
2.to update in electronics
3.to update in clothing
4.to update in beauty_store
5.to update in stationary
6.to update in schoolneeds
enter your choice:2
which column you want to update a) pname/b)pqty/c)spec/d)mfd/e)expd/f)cp/g)sp/h)cat/i)loc/j)ava/k)isl:
enter any letter in a-k:a
enter hsn:1212435
enter pname:redmi pro 7
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:2
------------------------------------------------------------------------------------------------------------------------------------
----
prod name     Prod size    spec         mfd          expd         cp       sp     cat        hsn       loc   availability    in stock

------------------------------------------------------------------------------------------------------------------------------------
----
redmi pro 7        1      50 mega pixel       2021-01-11         2025-01-01       2000       2500       tabs and mobile     1212435
bengaluru     0      no
```

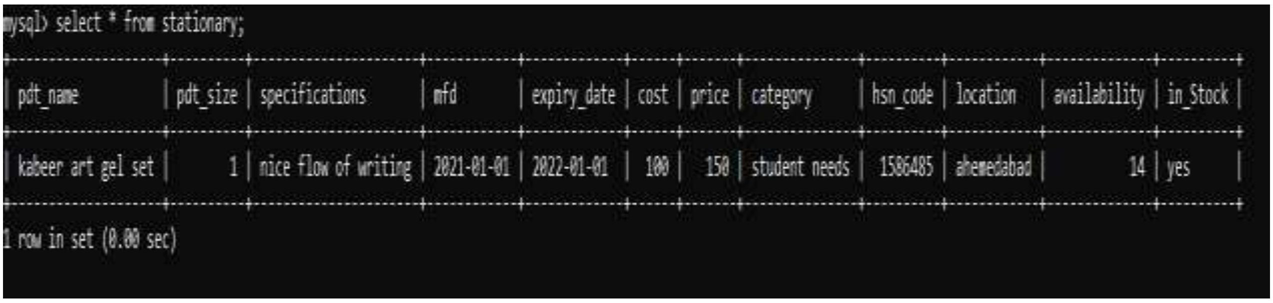


```
enter a choice:4
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:2
enter hsn code:1212435
enter a choice:3
1.to display from grocery
2.to display from electronics
3.to display from clothing
4.to display from beauty_store
5.to display from stationary
6.to display from schoolneeds
enter choice 1-6:2
------------------------------------------------------------------------------------------------------------------------------------
----
prod name     Prod size    spec         mfd          expd         cp       sp     cat        hsn       loc   availability    in stock

------------------------------------------------------------------------------------------------------------------------------------
----
```

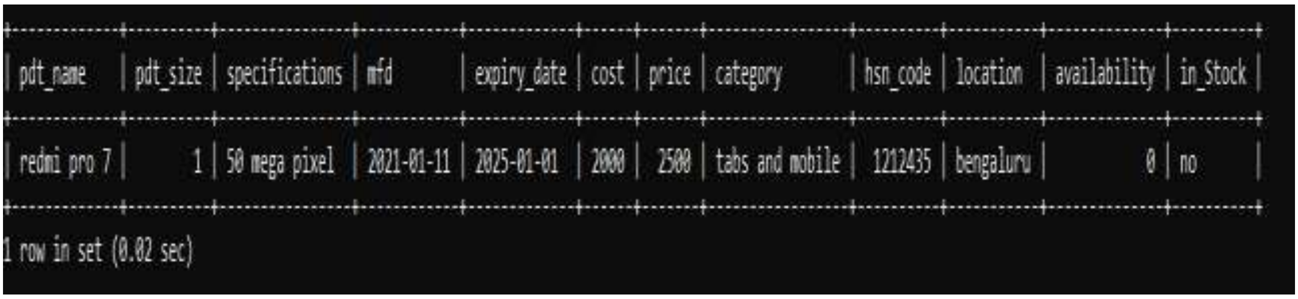
In Sql



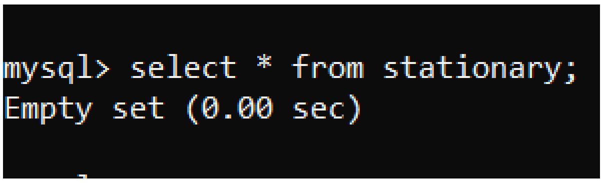
```
mysql> select * from grocery;
+---------------+----------+----------------+------------+-------------+------+-------+----------+----------+----------+--------------+----------+
| pdt_name      | pdt_size | specifications | mfd        | expiry_date | cost | price | category | hsn_code | location | availability | in_Stock |
+---------------+----------+----------------+------------+-------------+------+-------+----------+----------+----------+--------------+----------+
| ashirvad atta |        1 | fresh wheat    | 2021-01-05 | 2021-05-05  | 1000 |  1500 | flour    |  1324935 | chennai  |          100 | yes      |
+---------------+----------+----------------+------------+-------------+------+-------+----------+----------+----------+--------------+----------+
1 row in set (0.02 sec)

mysql> select * from schoolneeds;
+-----------------+----------+----------------+------------+-------------+------+-------+----------+----------+----------+--------------+----------+
| pdt_name        | pdt_size | specifications | mfd        | expiry_date | cost | price | category | hsn_code | location | availability | in_Stock |
+-----------------+----------+----------------+------------+-------------+------+-------+----------+----------+----------+--------------+----------+
| back to skl set |        1 | all essentials | 2020-01-11 | 2022-01-11  | 1000 |  1500 | sets     |  1424214 | vizag    |           10 | yes      |
+-----------------+----------+----------------+------------+-------------+------+-------+----------+----------+----------+--------------+----------+
1 row in set (0.00 sec)

mysql> select * from electronics;
+-------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+-----------+--------------+----------+
| pdt_name    | pdt_size | specifications | mfd        | expiry_date | cost | price | category        | hsn_code | location  | availability | in_Stock |
+-------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+-----------+--------------+----------+
| Vivo v5 pro |        1 | 50 mega pixel  | 2021-01-11 | 2025-01-01  | 2000 |  2500 | tabs and mobile |  1212435 | bengaluru |            0 | no       |
+-------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+-----------+--------------+----------+
1 row in set (0.00 sec)

mysql> select * from clothing;
+---------------------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+----------+--------------+----------+
| pdt_name                  | pdt_size | specifications | mfd        | expiry_date | cost | price | category        | hsn_code | location | availability | in_Stock |
+---------------------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+----------+--------------+----------+
| aqua blue flared art silk |        1 | double layer   | 2021-01-11 | 2025-01-11  | 1000 |  2500 | female clothing | 21431535 | pune     |          100 | yes      |
+---------------------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+----------+--------------+----------+
1 row in set (0.00 sec)

mysql> select * from beauty_store;
+----------+----------+------------------+------------+-------------+------+-------+-------------+----------+----------+--------------+----------+
| pdt_name | pdt_size | specifications   | mfd        | expiry_date | cost | price | category    | hsn_code | location | availability | in_Stock |
+----------+----------+------------------+------------+-------------+------+-------+-------------+----------+----------+--------------+----------+
| vaseline |      500 | non sticky fresh | 2021-01-11 | 2022-01-11  |  100 |   150 | moisturizer |   413445 | patna    |          100 | yes      |
+----------+----------+------------------+------------+-------------+------+-------+-------------+----------+----------+--------------+----------+
1 row in set (0.00 sec)
```



```
mysql> select * from stationary;
+--------------------+----------+----------------------+------------+-------------+------+-------+---------------+----------+------------+--------------+----------+
| pdt_name           | pdt_size | specifications       | mfd        | expiry_date | cost | price | category      | hsn_code | location   | availability | in_Stock |
+--------------------+----------+----------------------+------------+-------------+------+-------+---------------+----------+------------+--------------+----------+
| kabeer art gel set |        1 | nice flow of writing | 2021-01-01 | 2022-01-01  |  100 |   150 | student needs |  1506485 | ahemedabad |           14 | yes      |
+--------------------+----------+----------------------+------------+-------------+------+-------+---------------+----------+------------+--------------+----------+
1 row in set (0.00 sec)
```



```
+-------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+-----------+--------------+----------+
| pdt_name    | pdt_size | specifications | mfd        | expiry_date | cost | price | category        | hsn_code | location  | availability | in_Stock |
+-------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+-----------+--------------+----------+
| redmi pro 7 |        1 | 50 mega pixel  | 2021-01-11 | 2025-01-01  | 2000 |  2500 | tabs and mobile |  1212435 | bengaluru |            0 | no       |
+-------------+----------+----------------+------------+-------------+------+-------+-----------------+----------+-----------+--------------+----------+
1 row in set (0.02 sec)
```



```
mysql> select * from stationary;
Empty set (0.00 sec)
```

BIBLIOGRAPHY:

www.google.com

www.w3schools.com

www.wikepedia.org

www.amazon.in

www.bigbasket.com

www.biba.in