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cursor = mycon.cursor() # creating cursor object
 quant = stockquant - quan
 queryup = 'update medical_shop set Quantity = {} where Code = {}'.format(quant, code) # Updating
the quantity
 cursor.execute(queryup)
 mycon.commit()
#------Main Code------
 #-----#
answer1 = 'y'
while answer1.lower() == 'y':
 print("\n-----")
 print("1. Update\View Stock On Database. \n2. Print Invoice/Bill for a Purchase.(Create a file) \n3.
Exit. ") # Choice
 ch = int(input("What do you want to do? (1/2/3):"))
                -----Adding Medicine To Database------
-----#
 if ch == 1:
   if mycon.is connected():
     print('Successfully Connected to MySQL Databases \n')
   print("-----")
   cursor = mycon.cursor() # creating cursor object
   print("----\n\n")
   answer = 'y'
   while answer.lower() == 'y':
     print("1. Add Medicine \n2. Remove Medicine \n3. Update Medicine Information \n4. List Of
Medicine \n5. Main Menu")
     ch1 = int(input("What do you want to do? (1/2/3/4/5):"))
     if ch1 == 1: # Adding Medicine to stock
      ans = 'y'
      while ans.lower() == 'y':
        print()
        print("-----\n")
        code = int(input("Enter Code : "))
        queryup = 'select * from medical_shop where Code = {}'.format(code)
        cursor.execute(queryup)
        result = cursor.fetchall()
        if cursor.rowcount == 0: # Checking for duplicate entry
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nmed = input("Enter Name of Medicine: ")
            nmanu = input("Enter Name of Manufacturer: ")
            batch = input("Enter Batch No. : ")
            mandate = input("Enter Date of Manufacturing (YYYY-MM-DD):")
            expdate = input("Enter Date of Expiry (YYYY-MM-DD): ")
            a = date.fromisoformat(mandate)
            #print(a)
            b = date.fromisoformat(expdate)
            #print(b)
            if a < b:
              pass
            else:
              print('Invalid Input!\nDate Expiry Date shoud be after Manufacturing date')
              break
            quan = int(input("Enter Quantity:"))
            price = float(input("Enter Price Per 10 Tablets / 10 units: "))
            query = 'insert into medical_shop values({}, "{}", "{}", "{}", "{}", "{}", {}, {})'.format(code,
nmed, nmanu, batch, mandate, expdate, quan, price)
            cursor.execute(query)
            mycon.commit()
            print('Data Saved Successfully')
            ans = input('Want to add more ?(y/n): ')
          else:
            print('%10s'%'Code', '%20s'%'Name of Medicine', '%25s'%'Name of Manufacturer',
'%15s'%'Batch No.', '%25s'%'Date of Manufacturer', '%15s'%'Date of Expiry', '%20s'%'Quantity',
'%18s'%'Price')
            for row in result:
              print('%10s'%row[0], '%20s'%row[1], '%25s'%row[2], '%13s'%row[3], '%18s'%row[4],
'%20s'%row[5], '%20s'%row[6], '%21s'%row[7])
            print("Medicine with code", code, "Already Present !!!\n")
            break
                      ------Deleting Medicine from Database------
      elif ch1 == 2 :
        ans = 'y'
        while ans.lower() == 'y':
          print("-----\n")
          nmed = input("Enter name of medicine to be Deleted: ")
          query = 'select * from medical shop where Name of Med = "{}"'.format(nmed)
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cursor.execute(query)
          result = cursor.fetchall()
          if cursor.rowcount == 0:
            tim.sleep(0.5)
            print("Sorry! medicine with ", nmed, "not found")
          else:
            print('%10s'%'Code', '%20s'%'Name of Medicine', '%25s'%'Name of Manufacturer',
'%15s'%'Batch No.', '%25s'%'Date of Manufacturer', '%15s'%'Date of Expiry', '%20s'%'Quantity',
'%18s'%'Price')
            for row in result:
              print('%10s'%row[0], '%20s'%row[1], '%25s'%row[2], '%13s'%row[3], '%18s'%row[4],
'%20s'%row[5], '%20s'%row[6], '%21s'%row[7])
              code = row[0]
              su = input("\n\nWant to delete Sure(y/n): ")
              if su.lower() == 'y':
                queryde = 'delete from medical shop where code = {}'.format(code)
                cursor.execute(queryde)
                 mycon.commit()
                 print('Record Deleted Successfully')
          ans = input('Want to delete more ?(y/n): ')
  ------Updating Medicine of previously entered Database-
  -----#
      elif ch1 == 3: # Updating Medicine Information
        print("-----Updating Info of Medicine of Stock-----\n")
        ans = 'y'
        while ans.lower() == 'y':
          nmed = input("Enter name of medicine to be updated: ")
          queryup = 'select * from medical shop where Name of Med = "{}"'.format(nmed)
          cursor.execute(queryup)
          result = cursor.fetchall()
          if cursor.rowcount == 0:
            print("Sorry! medicine ", nmed, "not found\n")
          else:
            print('%10s'%'Code', '%20s'%'Name of Medicine', '%25s'%'Name of Manufacturer',
'%15s'%'Batch No.', '%25s'%'Date of Manufacturer', '%15s'%'Date of Expiry', '%20s'%'Quantity',
'%18s'%'Price')
            for row in result:
              code = row[0]
              print('%10s'%row[0], '%20s'%row[1], '%25s'%row[2], '%13s'%row[3], '%18s'%row[4],
'%20s'%row[5], '%20s'%row[6], '%21s'%row[7])
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choice = input("Sure to Update(y/n):")
               if choice.lower() == 'y':
                  print("---You can update only Batch No., Date of manufacturing and expiry, Quantity
and Price---")
                  bno = input("Enter new batch No. (leave blank if you don't want to change it): ")
                  if bno == ":
                    bno = row[3]
                  Dman = input("Enter new Date of Manufacturing (leave blank if you don't want to
change it): ")
                 if Dman == ":
                    Dman = row[4]
                  Dexp = input("Enter new Date of Expiry (leave blank if you don't want to change it): ")
                 if Dexp == ":
                    Dexp = row[5]
                 qua = input("Enter new Quantity(leave blank if you don'twant to change it): ")
                  if qua == ":
                    qua0 = row[6]
                    qua = int(qua0)
                  pri = input("Enter new Price (leave blank if you don't want to change it): ")
                  if pri == ":
                    pri0 = row[7]
                    pri = int(pri0)
                 queryup = 'update medical_shop set Batch_No = "{}", Manu_Date = "{}", Exp_Date =
"{}", Quantity = {}, Price Per10 = {} where code = {}'.format(bno, Dman, Dexp, qua, pri, code)
                 cursor.execute(queryup)
                  mycon.commit()
                  print("Record updated succesfully\n")
           ans = input('Want to update more ?(y/n): ')
                                -----Getting Medicine(List) Details from Database-----
      elif ch1 == 4 :
         print("----- Medicines in Stock-----\n")
         query = 'select * from medical shop'
         cursor.execute(query)
         result = cursor.fetchall()
         print('%10s'%'Code', '%20s'%'Name of Medicine', '%25s'%'Name of Manufacturer',
'%15s'%'Batch No.', '%25s'%'Date of Manufacturer', '%15s'%'Date of Expiry', '%20s'%'Quantity',
'%18s'%'Price')
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```
for row in result:
       print('%10s'%row[0], '%20s'%row[1], '%25s'%row[2], '%13s'%row[3], '%18s'%row[4],
'%20s'%row[5], '%20s'%row[6], '%21s'%row[7])
#-----If User want to go to main menu------
    elif ch1 == 5 :
     break
#-----In case invalid input is given-------
----#
    else:
     print("Invalid Input!")
#-----Shows option to choose menu and sub menu------
    print("-----\n")
    answer = input("For Database Menu Press y and Press Enter(return) for Main Menu:")
#------#
 elif ch == 2:
  print("Time :", Time)
#------Getting Bill no. from database------
  query2 = 'select * from bill'
  cursor.execute(query2)
  result2 = cursor.fetchall()
  if result2 == [] :
    billno = 0
  else:
    for row in result2:
     billno = row[0]
#-----Invoice Interface------
-#
  print("\n-----\n")
  billno = billno + 1 #int(input("Bill No.:"))
  print("Bill No.",billno)
  print("Date & Time :", Time)
  pname = input("Name of patient : ") # Patient name
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query1 = 'select * from bill where Billno = {}'.format(billno)
   cursor.execute(query1)
   result1 = cursor.fetchall()
#-----inserting current billno. to database------
   if result1 == [] :
     query0 = 'insert into bill values({}, "{}", "{}")'.format(billno, pname, Date) # saving Bill No to
database
     cursor.execute(query0)
     mycon.commit()
rdoc = input("Refered by Doctor:")
     add = input("Address of Patient : ")
     n = int(input("Number of Medicines : ")) # getting the number of medicines prescibed by doctor
     fname = (pname+ str(billno)+".csv")
#-----Creating and opening a csv file using patient name and billno.--
 -----#
     with open(fname, mode = 'w', newline = '\n') as csvfile :
       date0 = Date.strftime("%A, %d %B %Y")
       time0 = str(Time)
       time1 = time0[11:19]
       #print(time1)
      filewriter = csv.writer(csvfile,delimiter = ',')
filewriter.writerow(["------USAVN Medical Shop Tumsar----
 -----"])
      filewriter.writerow(["Bill No.: "+ str(billno),",",",",",", str(date0)])
      filewriter.writerow(["Patient's Name : " + pname ,",",",",",", 'Issue Time :' + str(time1)])
       filewriter.writerow(["Address: " + add])
       filewriter.writerow(["Refered by Doctor: " + rdoc])
       filewriter.writerow([])
       filewriter.writerow(["Sr.No.", "Name of Medicine",", "Manufacturing.Co.",", "Batch No.",
"Man.Date", "Exp.Date", "Quantity", "Price", "Amount"])
       b = c = 0
       total = amt = 0
       ans = 'y'
      for i in range(n):
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print("\nSr. No.", i+1)
          nmed0 = input("Enter name of medicine:") # Using the name of medicine the other
details will be obtained from the database
          nmed = nmed0.capitalize()
          query1 = 'select * from medical shop where Name of Med = "{}"'.format(nmed)
          cursor.execute(query1)
          result = cursor.fetchall()
          for row in result:
             if row[6] <= 50:
               print(row[1], 'is getting out of stock\n')
             else:
               pass
          if result == []:
             print("Sorry! medicine with name ", nmed, "not found\n")
             c = 0
             csvfile.close()
             break
          for row in result:
                              # Checking the existence of a medicine
             if cursor.rowcount != 0:
               quan = int(input("Quantity: "))
                              # Getting details according to name of medicine
               code = row[0]
               nmanu = row[2]
                                  # Fetching data from database
               batchn = row[3]
               mandate0 = str(row[4])
               mandate = mandate0[0:7]
               expdate0 = str(row[5])
               expdate = expdate0[0:7]
               #print(mandate, expdate)
               stockquant = row[6]
               price = row[7]
               #print(price)
               oneprice = price / 10 # Calculating the amount of each tablet
               amt = quan * oneprice # Calculating the amount of One medicine
               text = [str(i+1), nmed,", nmanu,", str(batchn), str(mandate), str(expdate), str(quan),
str(price), str(amt)]
               filewriter.writerow(text)
             print()
             total = total + amt # Total Amount
             reduce() # Calling reduce function to reduce the purchased medicine from database
             c = 1
```

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if c == 1:
        filewriter.writerow([])
        filewriter.writerow(["Total Amount: " + str(total)])
        filewriter.writerow(["Inclusive of all taxes. "])
        csvfile.close()
        print("\nInvoice Printed Successfully ")
        print("______\n")
#-----incase medicine not found------
       if b == 1:
        os.remove(fname)
        print("Invoice Printing Failed ! ")
        print("______")
        queryde = 'delete from bill where billno = {}'.format(billno)
        cursor.execute(queryde)
        mycon.commit()
   else:
     print("Bill no.",billno, "present already\n")
     print('%10s'%'Bill No.', '%20s'%'Name of Patient', '%25s'%'Date',)
     for row in result1:
       print('%10s'%row[0], '%20s'%row[1], '%25s'%row[2])
     print()
#-----Closing connection with database when user quits-----
-----#
 elif ch == 3 :
   break
   mycon.close() # closing connection with database
 else:
   print("Invalid Input")
```