

PROJECT DESCRIPTION:

The main objective of this python program code is to manage and manipulate the record of a cloth store. It uses mySQL connectivity and involves the use of database management. The database stores the information regarding the type of items present in store, the cost price and selling price for each item and the number of units available in stock currently. This program uses google text to speech thus making the software more user friendly. The program performs the following 3 functions.

- View the stock present in the store
- Edit information
- Generate Bill and total profit per purchase

SOFTWARE **FOR** **STORE MANAGEMENT SYSTEM**



SOFTWARE & HARDWARE USED:

Software:

1. Microsoft Windows
2. Jupyter Notebook
3. MySQL Workbench 8.0 CE

Hardware:

1. Processor- Intel(R) Core(TM) i5
2. Ram- 8 GB
3. System type- 64-bit OS
4. Hard disc- 245 GB

PROJECT CODE:

```
import mysql.connector
conn = mysql.connector.connect(user='root', password='12345',
                               host='localhost', database='store')
cursor=conn.cursor()

from gtts import gTTS
from playsound import playsound
import os
cursor = conn.cursor()
cursor.execute("Show tables")
r=cursor.fetchall()

if ("stock") in r or ("stock",) in r:
    cursor.execute("drop table stock")
cursor.execute("Create table stock(Item varchar(50),Colour
varchar(50),CostPrice integer(250),SellingPrice integer(250),Units
integer(250))")
cursor.execute('Insert into stock
Values("Shirt","Black",500,1000,10),("Shirt","Blue",400,1500,15),("Tr
ousers","Brown",600,200,9),("Jeans","Navy
Blue",1000,3000,12),("Shoes","White",900,1800,5),("Shoes","Grey",
2000,6000,11),("Belt","Black",100,600,5)')

# FUNCTION FOR VIEWING THE ENTIRE STOCK
def function1():
    cursor.execute("Select * from stock")
    result=cursor.fetchall()
    m = gTTS("Greetings. Welcome to the stocks window. Here you
```

```

        can view the entire stock available in the store")
os.system("del sound.mp3")
m.save("sound.mp3")
playsound("sound.mp3")
print("ITEM COLOUR CP SP UNITS")
for row in result:
    print()
    for col in row:
        print(col,end=' ')
m = gTTS("Thankyou!")
os.system("del sound.mp3")
m.save("sound.mp3")
playsound("sound.mp3")

```

#FUNCTION FOR VIEWING THE SORTED STOCK

```

def function2():
    m = gTTS("Greetings. Welcome to the stocks window. Here you
can view the stock of each item sorted according to their colours ")
    os.system("del sound.mp3")
    m.save("sound.mp3")
    playsound("sound.mp3")
    item=input("Please enter the item")
    colour=input("Please enter the colour of the item or enter all if you
want to display the total units of that item")
    item=item.title()
    colour=colour.title()
    sql1="Select sum(Units) from stock where Item='"+item+"'"
    sql2="Select sum(Units) from stock where Item='"+item+" ' and
Colour='"+colour+"'"
    if colour=="all":
        cursor.execute(sql1)
        r1=cursor.fetchall()
        print(r1)

```

```

else:
    cursor.execute(sql2)
    r1=cursor.fetchall()
    print(r1[0][0])
    m = gTTS("Thankyou!")
    os.system("del sound.mp3")
    m.save("sound.mp3")
    playsound("sound.mp3")

```

#FUNCTION FOR EDITING THE INFORMATION

```

def function3():
    m = gTTS("Greetings. Welcome to the edit window. Here you can
    edit the Selling Price or cost price of any item available in store")
    os.system("del sound.mp3")
    m.save("sound.mp3")
    playsound("sound.mp3")
    item=input("Please enter the item").title()
    colour=input("Please enter the colour of the item").title()
    n=int(input("Please enter 1 to change the Selling Price, 2 to
    change the Cost Price and 3 to change the number of units "))
    if n==1:
        x="SellingPrice"
    elif n==2:
        x="CostPrice"
    elif n==3:
        x="Units"
    s1="Select "+x+" from stock where Item='"+item+"' and
    Colour='"+colour+"'"
    cursor.execute(s1)
    r=cursor.fetchall()
    print("The current "+x+" is: "+str(r[0][0]))
    new=input("Please enter the new "+x)

```

```

s="Update stock set "+x+"="+new+" where Item='"+item+"' and
Colour='"+colour+"'"
cursor.execute(s)
a="Select "+x+" from stock where Item='"+item+"' and
Colour='"+colour+"'"
cursor.execute(a)
res=cursor.fetchall()
print("The new "+x+" is: "+str(res[0][0]))

```

#FUNCTION FOR DISPLAYING THE BILL AND PROFIT

```

def function4():
    m = gTTS("Greetings. Welcome to the transactions window. Here
you can view the total bill and profit after every purchase")
    os.system("del sound.mp3")
    m.save("sound.mp3")
    playsound("sound.mp3")
    n=int(input("Please enter the number of distinct items"))
    bill,profit=0,0
    for x in range(n):
        item=input("Please enter the the item").title()
        colour=input("Please enter the colour of the item").title()
        unit=int(input("Please enter the number of units"))
        str1="Select SellingPrice from stock where Item='"+item+"'and
Colour='"+colour+"'"
        str2="Select CostPrice from stock where Item='"+item+"'and
Colour='"+colour+"'"
        str3="Select Units from stock where Item='"+item+"'and
Colour='"+colour+"'"
        cursor.execute(str3)
        r=cursor.fetchall()
        r=r[0][0]
        new=r-unit

```

```

        str4="Update stock set Units="+ str(new)+ " where
Item='"+item+"'and Colour='"+colour+"'"
        cursor.execute(str4)
        cursor.execute(str1)
        r1=cursor.fetchall()
        r1=r1[0][0]
        bill=bill+unit*r1
        cursor.execute(str2)
        r2=cursor.fetchall()
        r2=r2[0][0]
        profit=profit+unit*r1-unit*r2
print("The total bill is",bill)
c=input("Enter Y if you want to display the profit otherwise enter
N").upper()
    if c=='Y':
        print("The total profit is", profit)
    m = gTTS("Thankyou!")
    os.system("del sound.mp3")
    m.save("sound.mp3")
    playsound("sound.mp3")

```

```

choice=1
while choice==1:
    var=int(input("Please enter one of the numbers displayed below to
perform the required function\n 1 to view stock all at once \n 2 to
view it sorted \n 3 to edit price \n 4 for transactions"))
    if var==1:
        function1()
    elif var==2:
        function2()
    elif var==3:

```



```
    function3()
elif var==4:
    function4()
else:
    continue
choice=int(input("Press 1 to continue or 0 to exit"))
if choice==0:
    m = gTTS("Exiting")
    os.system("del sound.mp3")
    m.save("sound.mp3")
    playsound("sound.mp3")
    print('thankyou')
```

OUTPUT SCREENS:

Main Menu:

Please enter one of the numbers displayed below to perform the required function

1 to view stock all at once

2 to view it sorted

3 to edit price

4 for transactions

VIEWING THE ENTIRE STOCK:

Please enter one of the numbers displayed below to perform the required function

1 to view stock all at once

2 to view it sorted

3 to edit price

4 for transactions 1

ITEM COLOUR CP SP UNITS

Shirt Black 500 1000 10

Shirt Blue 400 1500 15

Trousers Brown 600 200 9

Jeans Navy Blue 1000 3000 12

Shoes White 900 1800 5

Shoes Grey 2000 6000 11

Belt Black 100 600 5

Press 1 to continue or 0 to exit

VIEWING THE SORTED STOCK:

Please enter one of the numbers displayed below to perform the required function

1 to view stock all at once

2 to view it sorted

3 to edit price

4 for transactions 2

Please enter the item Shirt

Please enter the colour of the item or enter all if you want to display the total units of that item Black
10

Press 1 to continue or 0 to exit 0

thankyou

EDITING THE PRICE OR NUMBER OF UNITS:

A) EDITING THE SELLING PRICE

```
Please enter one of the numbers displayed below to perform the required function
1 to view stock all at once
2 to view it sorted
3 to edit price
4 for transactions 3
Please enter the item Shirt
Please enter the colour of the item Black
Please enter 1 to change the Selling Price, 2 to change the Cost Price and 3 to change the number of units 1
The current SellingPrice is: 1000
Please enter the new SellingPrice1500
The new SellingPrice is: 1500
Press 1 to continue or 0 to exit 0
thankyou
```

B) EDITING THE COST PRICE

```
Please enter one of the numbers displayed below to perform the required function
1 to view stock all at once
2 to view it sorted
3 to edit price
4 for transactions 3
Please enter the item Shirt
Please enter the colour of the item Black
Please enter 1 to change the Selling Price, 2 to change the Cost Price and 3 to change the number of units 2
The current CostPrice is: 500
Please enter the new CostPrice1000
The new CostPrice is: 1000
Press 1 to continue or 0 to exit 0
thankyou
```

C) EDITING THE NUMBER OF UNITS

```
Please enter one of the numbers displayed below to perform the required function
1 to view stock all at once
2 to view it sorted
3 to edit price
4 for transactions 3
Please enter the item Shirt
Please enter the colour of the item Black
Please enter 1 to change the Selling Price, 2 to change the Cost Price and 3 to change the number of units 3
The current Units is: 10
Please enter the new Units15
The new Units is: 15
Press 1 to continue or 0 to exit 0
thankyou
```

DISPLAYING THE BILL AND PROFIT PER PURCHASE:

A) DISPLAYING THE BILL ONLY

```
Please enter one of the numbers displayed below to perform the required function
1 to view stock all at once
2 to view it sorted
3 to edit price
4 for transactions 4
Please enter the number of distinct items 2
Please enter the the item Shirt
Please enter the colour of the item Black
Please enter the number of units 2
Please enter the the item Shirt
Please enter the colour of the item Blue
Please enter the number of units 1
The total bill is Rupees 3500
Enter Y if you want to display the profit otherwise enter N n
Press 1 to continue or 0 to exit 0
thankyou
```

B) DISPLAYING THE BILL WITH PROFIT

```
Please enter one of the numbers displayed below to perform the required function
1 to view stock all at once
2 to view it sorted
3 to edit price
4 for transactions 4
Please enter the number of distinct items 2
Please enter the the item Shirt
Please enter the colour of the item Black
Please enter the number of units 2
Please enter the the item Shirt
Please enter the colour of the item Blue
Please enter the number of units 1
The total bill is Rupees 3500
Enter Y if you want to display the profit otherwise enter N y
The total profit is Rupees 2100
Press 1 to continue or 0 to exit 0
thankyou
```

REFERENCES:

- https://www.w3schools.com/python/python_functions.asp
- <https://www.tutorialspoint.com/mysql/mysql-insert-query.html>