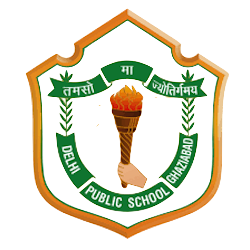
**D.P.S.G. PALAM VIHAR**



**ACADEMIC YEAR: 2020-21**

**PROJECT REPORT ON**

**SHOP MANAGEMENT SYSTEM**

**ROLL NO : 05**

**NAME : AKANSH VAIBHAV**

**CLASS : XII-F**

**SUBJECT : COMPUTER SCIENCE**

**SUB CODE : 083**

**PROJECT GUIDE: Mrs. MONICA YADAV**

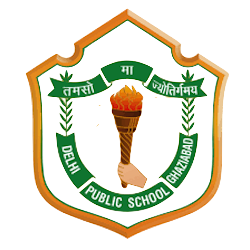
**PGT (CS)**

**DPSG, PALAM VIHAR**

**PALAM VIHAR**

**HARYANA**

## D.P.S.G. PALAM VIHAR



# **CERTIFICATE**

This is to certify that **AKANSH VAIBHAV** has successfully completed the project Work entitled **SHOP MANAGEMENT SYSTEM** in the subject Computer Science (083) laid down in the regulations of CBSE for the purpose of Practical Examination in Class XII. He has prepared the report under my guidance.

**(MONICA YADAV)**

PGT Comp Science

**Examiner:**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature:

###### Preface

The computers have gained a lot of importance in the past five decades. Most of our day-to-day jobs are being influenced by the use of computers. Now a day, computers are used for performing almost every function, which were performed by humans in the past. In some areas such as science and technology, targets can’t be achieved without the use of computers. The characteristics that make the computer so important include its extra ordinary speed, large storage capacity, accuracy and consistency.

Today computers play a great role in various industries and a large number of industries are using computers for various applications such as maintaining cashbook, sales book, purchase book and other books of accounts. Computers can also be used for the designing of various products. Computers provide many options for the designing of products.

The analysis of the project has been undertaken with utmost sincerity and honesty and we will be extremely satisfied if the effort is appreciated.

|  |  |  |
| --- | --- | --- |
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**ACKNOWLEDGEMENT**

Apart from the efforts of me, the success of any project depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this project.

I express my heartfelt gratitude to my parents for constant encouragement while carrying out this project.

I gratefully acknowledge the contribution of the individuals who contributed in bringing this project up to this level, who continues to look after me despite my flaws,

I express my deep sense of gratitude to the luminary The Principal, D.P.S.G. Palam Vihar, who has been continuously motivating and extending their helping hand to us.

I express my sincere thanks to the academician The Vice Principal, D.P.S.G. Palam Vihar, for constant encouragement and the guidance provided during this project

I am overwhelmed to express my thanks to The Administrative Officer for providing me an infrastructure and moral support while carrying out this project in the school.

My sincere thanks to  **Mrs. Monica Yadav**, Master In-charge, A guide, Mentor all the above a friend, who critically reviewed my project and helped in solving each and every problem, occurred during implementation of the project

The guidance and support received from all the members who contributed and who are contributing to this project, was vital for the success of the project. I am grateful for their constant support and help.

Akansh Vaibhav

XII-F

**PROJECT ON GROCERY SHOP MANAGEMENT SYSTEM**

**INTRODUCTION**

This software is used to maintain the customer details, product details, workers detail of the shop updated and maintain records of in and out data of the shop

**OBJECTIVES OF THE PROJECT**

The objective of this project is to let the students apply the programming knowledge into a real world situation/problem and exposed the students how programming skills helps in developing a good software.

1. Write programs utilizing modern software tools.
2. Apply Python Connectivity with MySQL effectively when developing small to medium sized projects.
3. Write effective procedural code to solve small to medium sized problems.
4. Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
5. Students will demonstrate ability to conduct a research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

**TABLES GENERATED**

**PERMANENT TABLES**

* **WORKERS DETAILS TABLE**

A table by the name of workers\_deatil is created at the time of registration of any new user. This table has following Attributes:

* Worker\_Code
* Name
* Phone\_number
* Address
* Position
* Salary
* **PRODUCT DETAILS TABLE**

A table by the name of product\_detail is created at the time of registration of any new user. This table has following Attributes:

* Product\_Code
* Name
* Cost
* Discount
* Net\_cost
* Quantity

**DYNAMIC/TEMPORARY TABLES**

* **COUSTOMER DETAILS TABLE**

A Table can be formed for any customer by unique combination of his/her Name and Number. This table has following Attributes:

* Product
* Net\_cost

**WORKING DESCRIPTION**

This Program shows sets of actions that can be taken and asks the user to select his/her preferable choice and then it executes what user wants to do. The program consists of the following options:

1. **REGISTER**

After choosing this option the program will ask you to enter a unique username. After receiving the required details it will create a database under that username along with two other tables. The message “Successfully registered” will come on screen after successful implementation of code block. In case the username is not unique it will pop up a message saying “This username already exist. Please choose a different username”.

1. **LOGIN**

After choosing this option the program will ask you to enter your username. After receiving the required details it will log you in and show the message “Successfully logged in”, along with a 4 more options. In case the username is incorrect it will show the message “Invalid Input”.

**2.1 CUSTOMER**

After choosing this option the program will show the following list to choose from:

**2.1.1 VIEW**

After choosing this option the program will ask for Name and Phone Number of the customer and then display all the detail from that customer’s table.

**2.1.2 EDIT**

After choosing this option the program will show the following list to choose from:

**2.1.2.1 Update Record**

After choosing this option the program will ask for required details of customer and Fill the record in the customer’s table.

**2.1.2.2 Clear All Records**

After choosing this option program will ask for required details of customer and then delete all the records from that customer’s table.

**2.1.2.3 Delete**

After choosing this option program will ask for required details of customer and then remove the customer from the database along with all the records.

**2.1.2.4 Back**

This option will take you to previous menu

**2.1.3 ADD**

After choosing this option the program will ask for name and phone number of the customer, then it will create a unique table for that customer to store his records

**2.1.4 BACK**

This option will take you to previous menu

**2.2 PRODUCT**

After choosing this option the program will show the following list to choose from:

**2.2.1 View All**

This option will show all records of all the products in the product\_detail table

**2.2.2 View One**

After Choosing this option program will ask for Product Code and then display all the records of that product

**2.2.3 Update List**

After choosing this option program will ask for required details of existing product and then update it in the table

**2.2.4 Add New**

After choosing this option program will ask for required details of new product and then add it in the table

**2.2.5 Delete**

After choosing this option the program will ask for the Product Code and then delete all records of that product

**2.2.6 Back**

This option will take you to previous menu

**2.3 WORKER**

After choosing this option the program will show the following list to choose from:

**2.3.1 View All**

This option will show all records of all the workers in the workers\_detail table

**2.3.2 View One**

After Choosing this option program will ask for Worker Code and then display all the records of that worker

**2.3.3 Update List**

After choosing this option program will ask for required details of existing worker and then update it in the table

**2.3.4 Add New**

After choosing this option program will ask for required details of new worker and then add it in the table

**2.3.5 Delete**

After choosing this option the program will ask for the Worker Code and then delete all records of that product

**2.3.6 Back**

This option will take you to previous menu

**2.4 LOGOUT**

This option will log out the user to the main menu

1. **DELETE ACCOUNT**

After choosing this option the program will ask for username and then show a confirmatory option showing two options as follows:

**3.1 PROCEED**

This option will delete the account of the user along with all the data

**3.2 CANCEL**

This option will stop deletion of account

1. **EXIT**

This option will stop the running program

**SOURCE CODE**

import mysql.connector as sql

conn=sql.connect(host='localhost',user='root', passwd='M@sterS4M4')

if conn.is\_connected():

print("\*\*\*Successfully connected\*\*\*")

while True:

try:

print("SHOP MANAGEMENT SYSTEM")

print("1. Register")

print("2. Login")

print("3. Delete Account")

print("4. Exits")

choice=int(input("Enter your choice :"))

except:

print("Invalid Input")

# REGISTER BLOCK :

if choice == 1:

try:

name = input("Enter a unique username :")

c=conn.cursor()

c.execute('create database {} ;'.format(name))

c.execute('use {} ;'.format(name))

c.execute('create table product\_detail(Product\_Code varchar(20) not null PRIMARY KEY, Name varchar(30), Cost integer, Discount integer, Net\_cost integer, Quantity integer) ;')#####

c.execute('create table workers\_detail(Worker\_Code varchar(20) not null PRIMARY KEY, Name varchar(30), Phone\_number char(10), Address varchar(100), Position varchar(30), Salary integer) ;')#####

conn.commit()

print("Successfully registered")

except:

print("This username already exist. Please Choose a different username")

# LOGIN BLOCK

elif choice == 2:

try:

name = input("Enter your usernamename :")

c=conn.cursor()

c.execute('use {} ;'.format(name))

conn.commit()

print("Successfully logged in")

except:

print("Invalid Input")

while True:

try:

print("List :")

print("1. Customer")

print("2. Product")

print("3. Worker")

print("4. Logout")

choice\_l = int(input("Enter your choice :"))

except:

print("Invalid Input")

# CUSTOMER BLOCK

if choice\_l==1:

try:

print("List :")

print("1. View")

print("2. Edit exiting")

print("3. Add New")

print("4. Back")

choice\_c=int(input("Enter your choice :"))

except:

print("Invalid Input")

# VIEW BLOCK

if choice\_c==1:

try:

customer\_name=input("Enter name of customer :")

phone\_number=input("Enter phone number of customer :")

table\_name= customer\_name+phone\_number

c=conn.cursor()

c.execute('select \* from {} ;'.format(table\_name))#####

data=c.fetchall()

for row in data:

print(row)

conn.commit()

except:

print("Invalid Input")

# EDIT BLOCK

elif choice\_c==2:

try:

print("List :")

print("1. Update Record")

print("2. Clear All Records")

print("3. Delete")

print("4. Back")

choice\_e=int(input("Enter your choice :"))

except:

print("Invalid Input")

# UPDATE BLOCK

if choice\_e==1:

try:

customer\_name=input("Enter name of customer :")

phone\_number=input("Enter phone number of customer :")

table\_name= customer\_name+phone\_number

product\_code=int(input("Enter product code :"))

c=conn.cursor()

c.execute('insert into {} select Name, Net\_cost from product\_detail where Product\_code= {} ;'.format(table\_name,product\_code))#####

conn.commit()

except:

print("Invalid Input")

# CLEAR BLOCK

elif choice\_e==2:

try:

customer\_name=input("Enter name of customer :")

phone\_number=input("enter phone number of customer :")

table\_name= customer\_name+phone\_number

c=conn.cursor()

c.execute('delete from {} ;'.format(table\_name))#####

conn.commit()

except:

print("Invalid Input")

# DELETE BLOCK

elif choice\_e==3:

try:

customer\_name=input("Enter name of customer :")

phone\_number=input("enter phone number of customer :")

table\_name= customer\_name+phone\_number

c=conn.cursor()

c.execute('drop table {}'.format(table\_name))#####

conn.commit()

except:

print("Invalid Input")

#BACK BLOCK

elif choice\_e==4:

pass

# ADD BLOCK

elif choice\_c==3:

try:

customer\_name=input("Enter name of customer :")

phone\_number=input("enter phone number of customer :")

table\_name= customer\_name + phone\_number

c=conn.cursor()

c.execute('create table {} (Product varchar(30), Net\_cost integer) ;'.format(table\_name))#####

conn.commit()

print("Customer Added Successfully")

print("Go to Edit to add record")

except:

print("Invalid Input")

# PRODUCT BLOCK

elif choice\_l==2:

try:

print("List :")

print("1. View All")

print("2. View One")

print("3. Update List")

print("4. Add New")

print("5. Delete")

print("6. Back")

choice\_p=int(input("Enter your choice :"))

except:

print("Invalid Input")

#VIEW ALL BLOCK

if choice\_p==1:

try:

c=conn.cursor()

c.execute('select \* from product\_detail ;')#####

data=c.fetchall()

for row in data:

print(row)

conn.commit()

except:

print("Invalid Input")

#VIEW ONE BLOCK

elif choice\_p==2:

try:

product\_code=input("Enter Product Code :")

c=conn.cursor()

c.execute('select \* from product\_detail where Product\_Code={};'.format(product\_code))#####

data=c.fetchall()

for row in data:

print(row)

conn.commit()

except:

print("Invalid Input")

#UPDATE BLOCK

elif choice\_p==3:

try:

product\_code=int(input("Enter Product Code :"))

product\_name=input("Enter Product name :")

product\_cost=int(input("Enter Product cost :"))

product\_discount=int(input("Enter Product discount :"))

product\_net\_cost=product\_cost-product\_discount

product\_quantity=int(input("Enter Product quantity :"))

c=conn.cursor()

c.execute('update product\_detail set Name="{}", Cost={}, Discount={}, Net\_cost={}, Quantity={} where Product\_code={} ;'.format(product\_name,product\_cost,product\_discount,product\_net\_cost,product\_quantity,product\_code))#####

conn.commit()

except:

print("Invalid Input")

#ADD BLOCK

elif choice\_p==4:

try:

product\_code=int(input("Enter Product Code(Only numeric and should be unique) :"))

product\_name=input("Enter Product name :")

product\_cost=int(input("Enter Product cost :"))

product\_discount=int(input("Enter Product discount :"))

product\_net\_cost=product\_cost - product\_discount

product\_quantity=int(input("Enter Product quantity :"))

c=conn.cursor()

c.execute('insert into product\_detail values({},"{}",{},{},{},{}) ;'.format( product\_code, product\_name, product\_cost, product\_discount, product\_net\_cost, product\_quantity))#####

conn.commit()

except:

print("Invalid Input")

# DELETE BLOCK

elif choice\_p==5:

try:

product\_code=int(input("Enter Product Code :"))

c=conn.cursor()

c.execute('delete from product\_detail where Product\_code={}'.format(product\_code))#####

conn.commit()

except:

print("Invalid Input")

#BACK BLOCK

elif choice\_p==6:

pass

# WORKER BLOCK

elif choice\_l==3:

try:

print("List :")

print("1. View All")

print("2. View One")

print("3. Update List")

print("4. Add New")

print("5. Delete")

print("6. Back")

choice\_w=int(input("Enter your choice :"))

except:

print("Invalid Input")

#VIEW ALL BLOCK

if choice\_w==1:

try:

c=conn.cursor()

c.execute('select \* from Workers\_Detail ;')#####

data=c.fetchall()

for row in data:

print(row)

conn.commit()

except:

print("Invalid Input")

#VIEW ON EBLOCK

elif choice\_w==2:

try:

worker\_code=input("Enter Worker code :")

c=conn.cursor()

c.execute('select \* from Workers\_Detail where Worker\_Code={} ;'.format(worker\_code))#####

data=c.fetchall()

for row in data:

print(row)

conn.commit()

except:

print("Invalid Input")

#UPDATE BLOCK

elif choice\_w==3:

try:

worker\_code=int(input("Enter Worker code :"))

worker\_name=input("Enter new name of worker :")

worker\_phone=input("Enter new phone number of worker :")

worker\_address=input("Enter new address of worker :")

worker\_position=input("Enter new position of worker :")

worker\_salary=int(input("Enter new salary of worker :"))

c=conn.cursor()

c.execute('update workers\_detail set Name="{}", Phone\_number="{}", Address="{}", Position="{}", Salary={} where Worker\_code={} ;'.format(worker\_name,worker\_phone,worker\_address,worker\_position,worker\_salary,worker\_code))#####

conn.commit()

except:

print("Invalid Input")

#ADD BLOCK

elif choice\_w==4:

try:

worker\_code=int(input("Enter Worker Code( Should contain numeric values only and should be unique ) :"))

worker\_name=input("Enter Worker name :")

worker\_phone=input("Enter Worker phone number :")

worker\_address=input("Enter Worker address :")

worker\_position=input("Enter Worker position :")

worker\_salary=int(input("Enter Worker salary :"))

c=conn.cursor()

c.execute('insert into workers\_detail values({},"{}","{}","{}","{}",{});'.format(worker\_code,worker\_name,worker\_phone,worker\_address,worker\_position,worker\_salary))#####

conn.commit()

except:

print("Invalid Input")

# DELETE BLOCK

elif choice\_w==5:

try:

worker\_code=int(input("Enter Worker Code :"))

c=conn.cursor()

c.execute('delete from workers\_detail where Worker\_code={}'.format(worker\_code))#####

conn.commit()

except:

print("Invalid Input")

#BACK BLOCK

elif choice\_w==6:

pass

#LOGOUT BLOCK

elif choice\_l==4:

break

#DELETE ACOUNT BLOCK

elif choice==3:

try:

acc\_name=input("Enter name of account to be deleted :")

print("\*\*\*WARNING: This will permanently delete the account along with all the records\*\*\*")

print("1. Proceed")

print("2. Cancel")

choice\_b=int(input("Enter your choice :"))

except:

print("Invalid Input")

#PEOCEED BLOCK

if choice\_b==1:

c=conn.cursor()

c.execute('drop database {}'.format(acc\_name))

conn.commit()

print("Account successfully deleted")

#CANCEL BLOCK

elif choice\_b==2:

pass

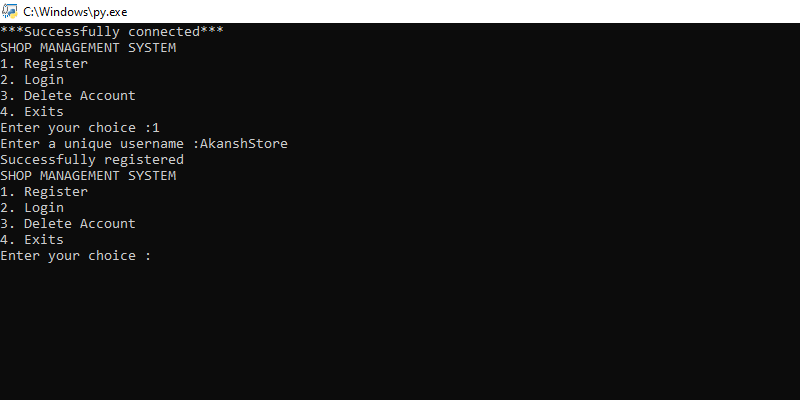
# EXIT BLOCK

elif choice == 4:

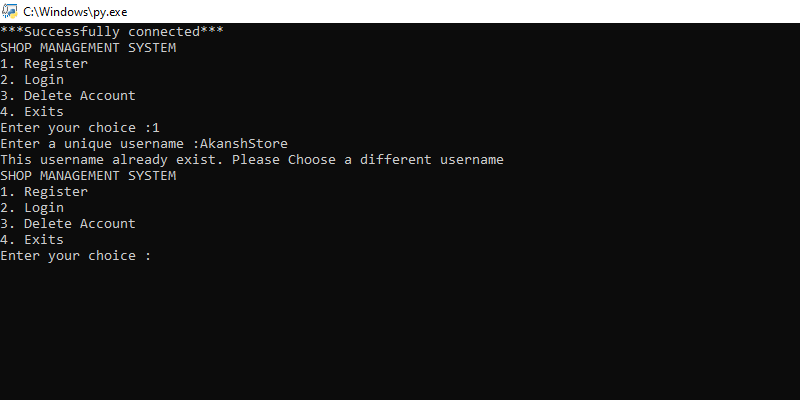
exit()

**OUTPUT**

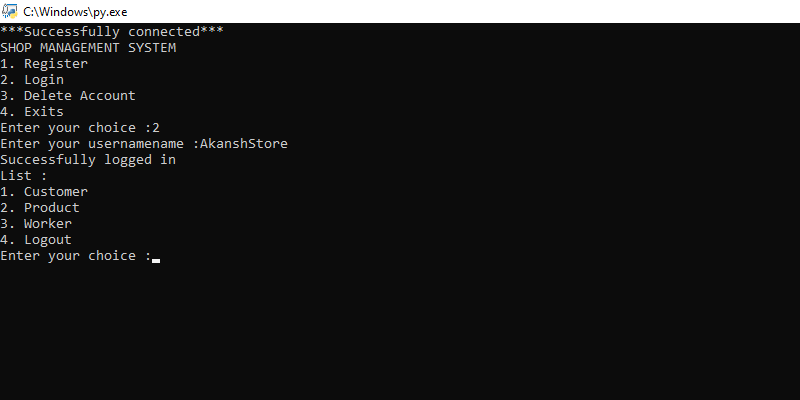
* **Registering in the system**

****

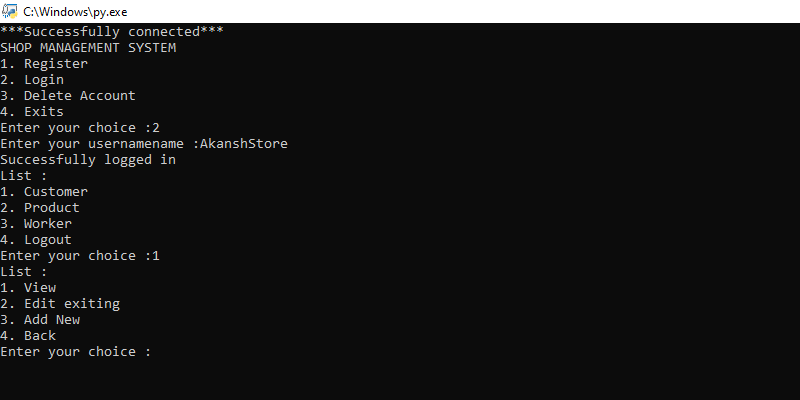
* **Registering with an already existing username shows error message**

****

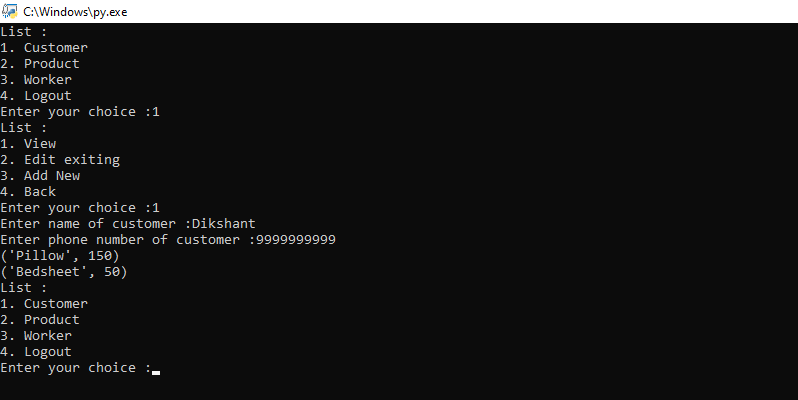
* **Logging in by entering username**



* **A menu appears after pressing Customer Option**



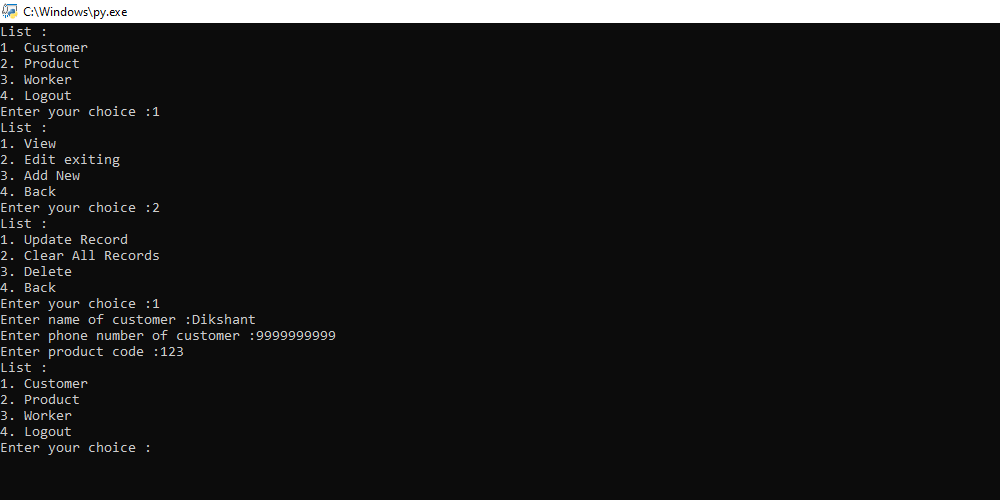
* **View Option shows details of the desired customer**



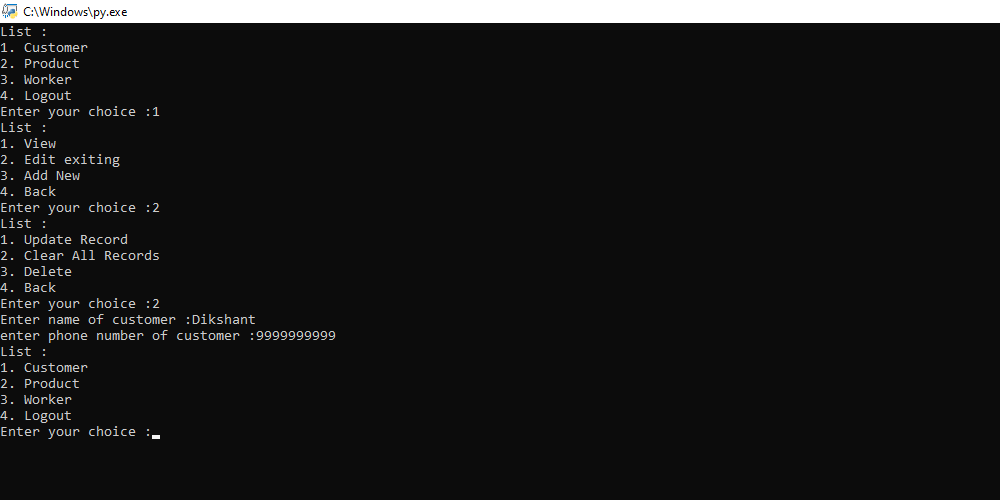
* **A menu appears after choosing Edit Option**



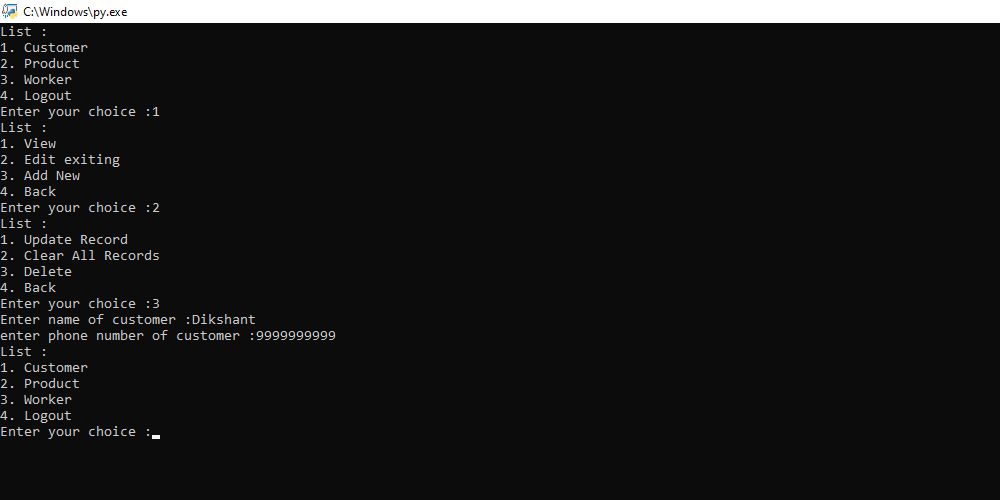
* **Adding items to the Customer’s Table by Update Option**



* **All records of the Customer are deleted using Clear All Records Option**



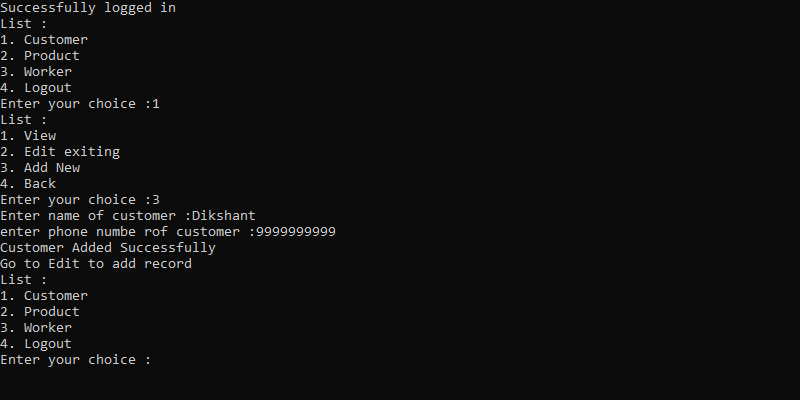
* **The Customer is deleted from records using Delete Option**



* **Main menu shows up after choosing Back Option**



* **Adding new customer to the list**



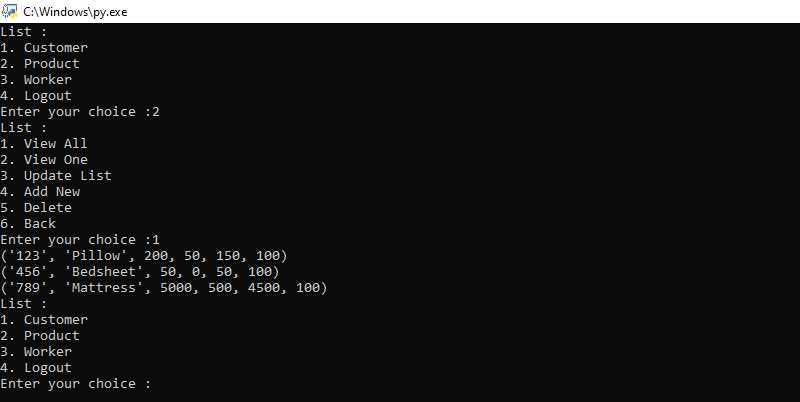
* **Main menu shows up after choosing Back Option**



* **A menu appears after pressing Product Option**



* **All details of all products is displayed after choosing View All Option**

****

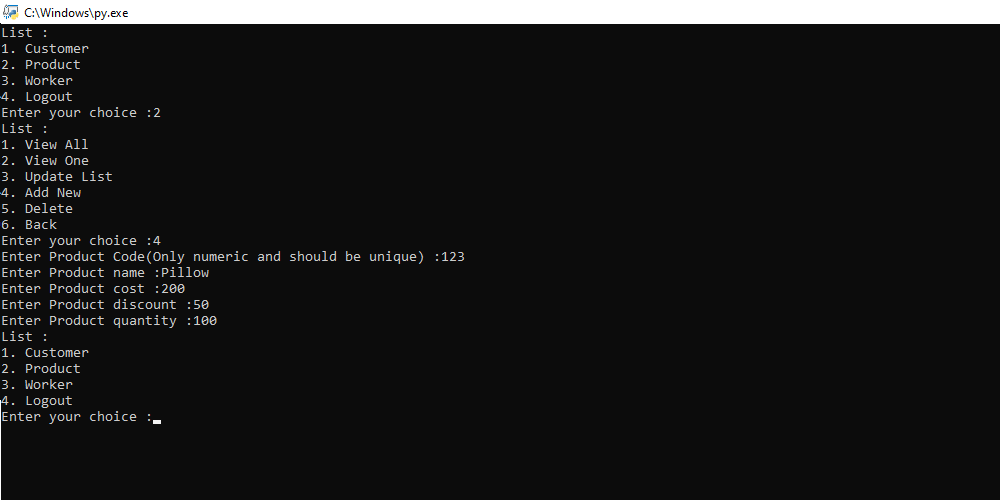
* **All Details of desired product is displayed after choosing View One Option**



* **Details of desired product can be updated after choosing Update Option**

****

* **Details of new product can be added after choosing Add New Option**



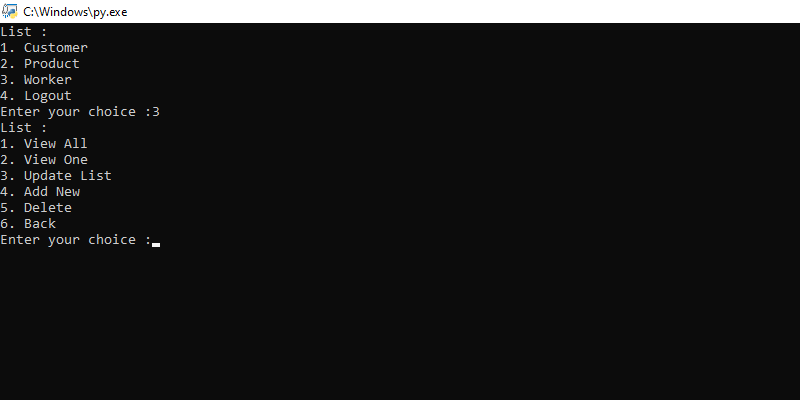
* **Record of desired product can be deleted after choosing Delete Option**

****

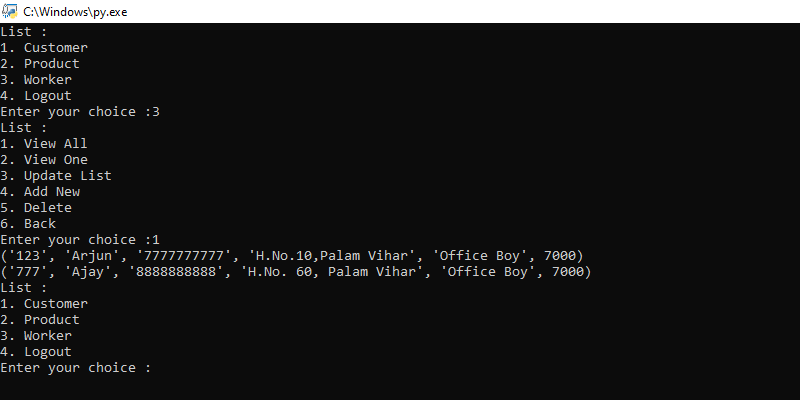
* **Main Menu shows up after choosing Back Option**



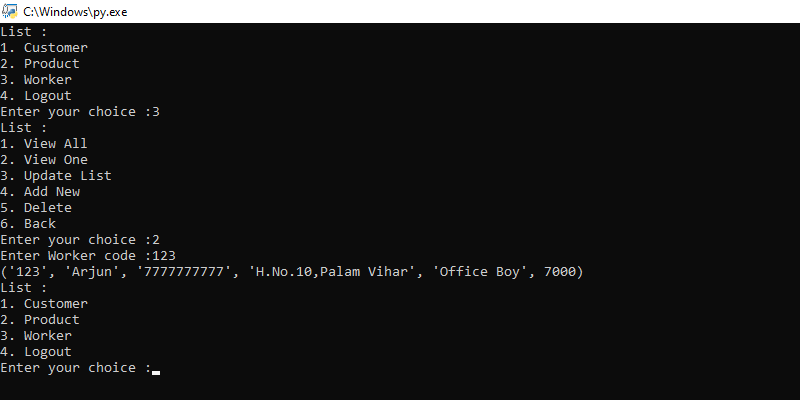
* **A menu appears after pressing Worker Option**



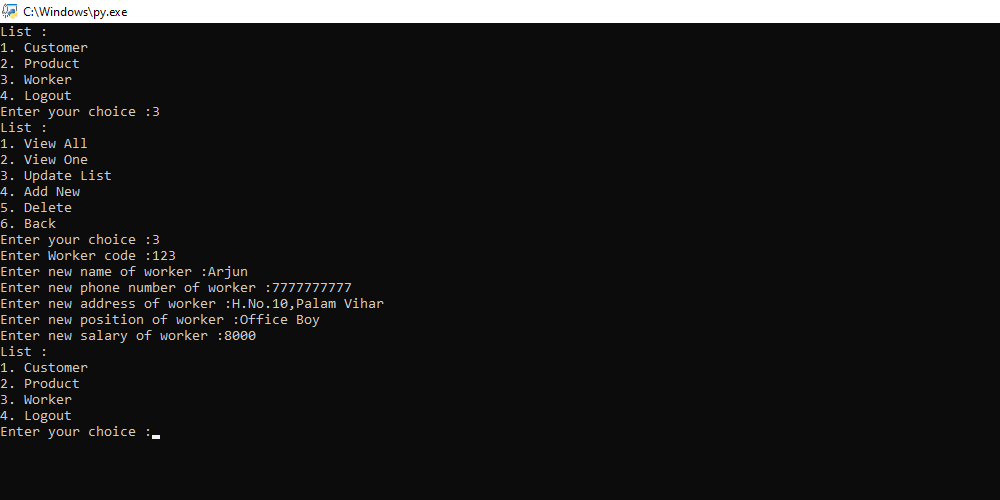
* **All details of all Worker is displayed after choosing View All Option**



* **All Details of desired worker is displayed after choosing View One Option**



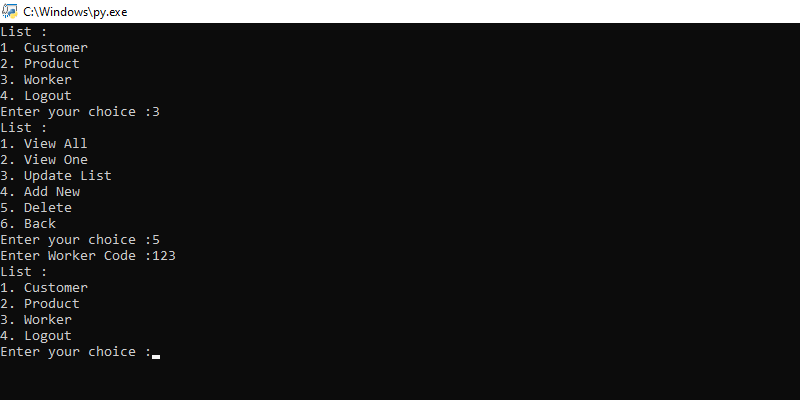
* **Details of desired worker can be updated after choosing Update Option**



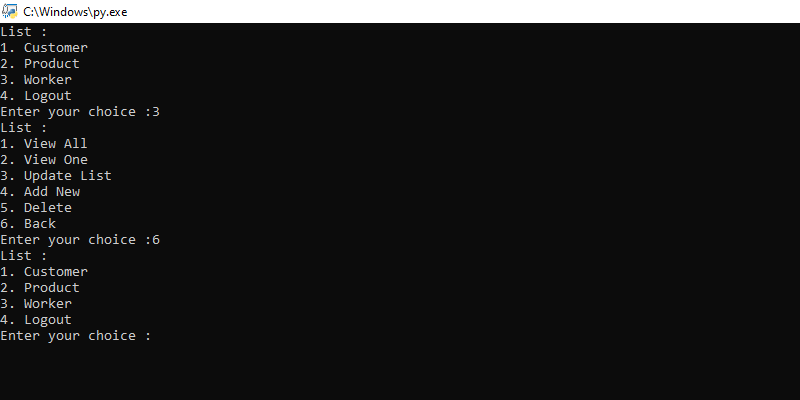
* **Details of new worker can be added after choosing Add New Option**



* **Record of desired worker can be deleted after choosing Delete Option**



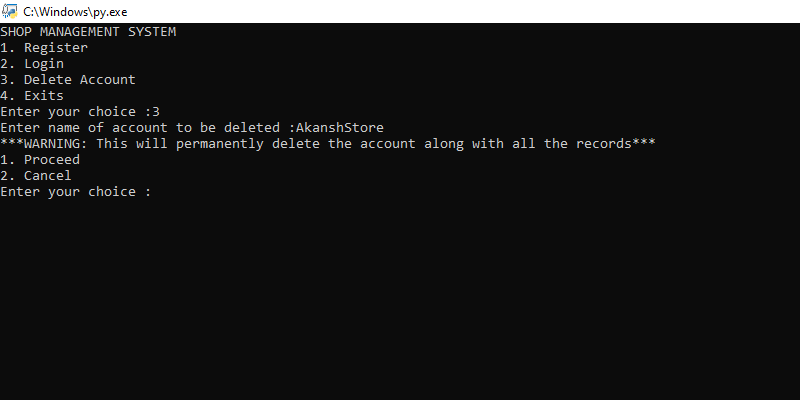
* **Main Menu shows up after choosing Back Option**



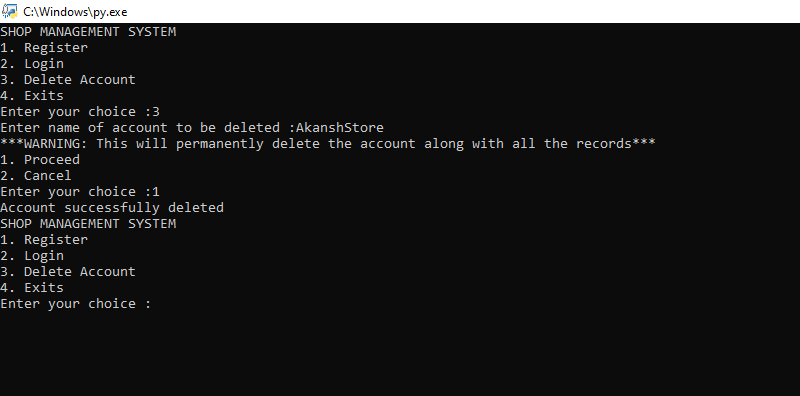
* **After choosing Logout Option the program log out user**



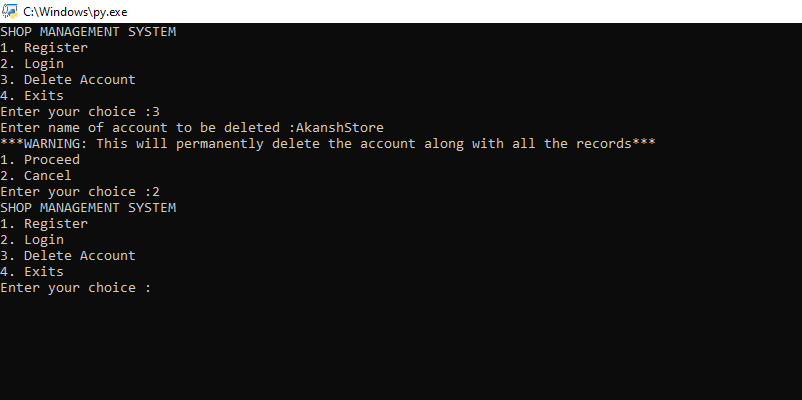
* **The program ask for username and conformation after choosing Delete Account Option**



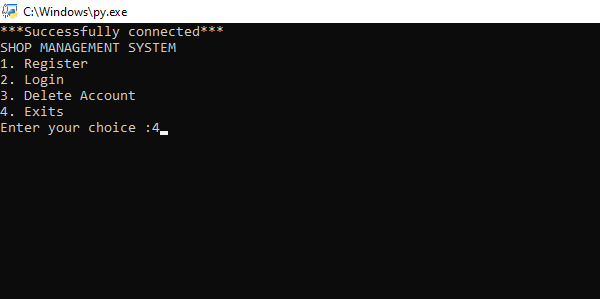
* **The program deletes user permanently after choosing Proceed Option**



* **The program does not deletes user after choosing Cancel Option**



* **The programs kills itself after choosing Exit Option**



**HARDWARE AND SOFTWARE REQUIREMENTS**

I.OPERATING SYSTEM : WINDOWS 7 AND ABOVE

II. PROCESSOR : PENTIUM (ANY) OR AMD

ATHALON (3800+- 4200+ DUAL CORE)

III. MOTHERBOARD : 1.845 OR 915,995 FOR PENTIUM 0R MSI

K9MM-V VIA K8M800+8237R PLUS CHIPSET FOR AMD ATHALON

IV. RAM : 512MB+

V. Hard disk : SATA 40 GB OR ABOVE

VI. CD/DVD r/w multi drive combo: (If back up required)

VII. FLOPPY DRIVE : (If Backup required)

VIII. Printer : (if print is required – [Hard copy])

**SOFTWARE REQUIREMENTS:**

1. Python 3.x
2. MySQL
3. MySQL Connector Python

**BIBLIOGRAPHY**

1. ***Computer science With Python - Class XII By : Sumita Arora***
2. ***Website:*** [**https://www.w3resource.com**](https://www.w3resource.com)

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