

**Shoe Billing System**

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**Index**

|  |  |  |  |
| --- | --- | --- | --- |
| Serial  Number | Description | | Page  Number |
| 1. | Acknowledgement | | 2 |
| 2. | Introduction | | 3 |
| 3. | Objectives of the project | | 3 |
| 4. | About the project | | 4 |
| 5. | Flow Chart | | 5 |
| 6. | Source Code | | 6 |
| 7. | Output | | 8 |
| 8. | Testing | | 10 |
| 9. | Hardware and Software Requirements | | 10 |
| 10. | Bibliography | 10 | |

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Secondly I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

**INTRODUCTION**

This project is based on the way in which the billing is done in the shoe stores. This is helpful for the owners to maintain the list of the sales done on  the day or in a year and also helpful in calculating the profit.

**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.

* Writing programs utilizing modern software tools.
* Apply object oriented programming principles effectively when developing small to medium sized projects.
* Write effective procedural code to solve small to medium sized problems.
* Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
* 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.

**ABOUT THE PROJECT**

In today’s world, everything is computerised, so as the billing system because today no one can afford to rely on the fallible human beings. This project is done for the same purpose.

In a shoe store many shoes are sold on daily basis. And to keep the track, one should need proper data management software. In this project, we have created Command Prompt based software which connects to the database and keep all the records of everything for future reference.

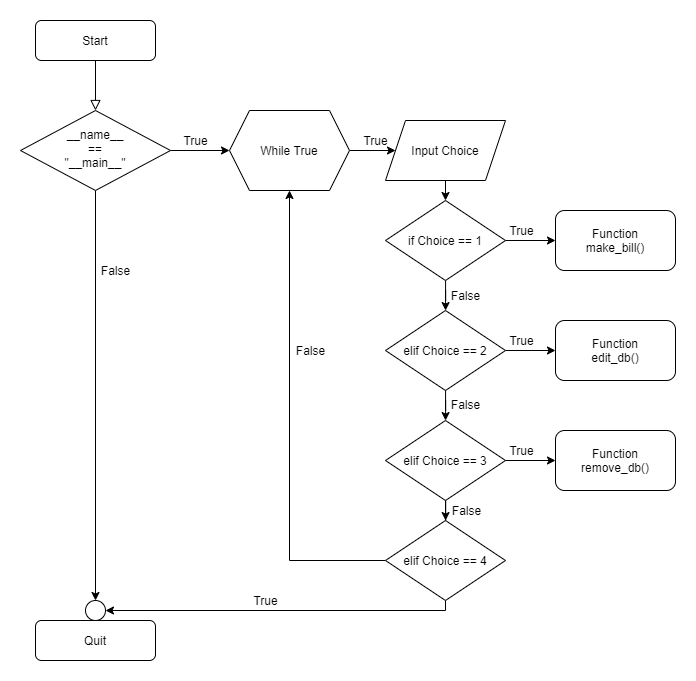
The functions of our database based software are:

* Make bills for customers.
* Keep sales records.
* Add stock data to database.
* Remove stock data from database.

**Scan for files in Git Hub Repository**



**Flow Chart**



**Source Code**

import mysql.connector as mqt

def make\_bill():

name = input("Give customer name: ")

ph\_no = int(input("Give customer phone number: "))

details = []

n = int(input("Total Number of products: "))

sum\_ = 0

for i in range(n):

code = int(input("Give Code of Shoe: "))

try:

cursor.execute(f"select \* from data where code = {code}")

result = cursor.fetchall()[0]

details.append([result[2],result[1],result[0]])

sum\_ += result[2]

except:

print("Code does not exist!")

make\_table(details,name,ph\_no)

cursor.execute(f"insert into user\_data(name,phone\_no,total\_money) values('{name}','{ph\_no}','{sum\_}')")

mydb.commit()

def add\_db():

details = []

cursor.execute(f"select \* from data")

last\_code = cursor.fetchall()[-1][0]

x = int(input("How many product you want to add?: "))

for i in range(x):

name = input("\nGive the product name: ")

price = int(input("Give the product price: "))

cursor.execute(f"INSERT INTO data (code, name, price) VALUES ('{last\_code+1+i}','{name}','{price}')")

mydb.commit()

details.append([price,name,last\_code+1+i])

make\_table(details,total=False)

print("Data added!")

def remove\_db():

x = int(input("How many product you want to remove?: "))

for i in range(x):

code = int(input("\nGive Code of Shoe: "))

cursor.execute(f"select name, price from data where code = {code}")

data = cursor.fetchall()[0]

print(data)

confermation = input("Are you sure you want to remove these data? (Y/N): ").lower()

if confermation == "y":

try:

cursor.execute(f"delete from data where code = '{code}'")

mydb.commit()

except:

print("Code does not exist!")

print("Data erased!")

def make\_table(details,name='Python',ph\_no=1234567890,total=True):

print(f"\n{'\*'\*30}\n")

if name != 'Python' and ph\_no != 1234567890:

print(f"Name - {name}")

print(f"Phone Number - {ph\_no}")

price\_max = int()

word\_max = int()

for i in details:

if len(str(i[0])) >= price\_max:

price\_max = len(str(i[0]))

if len(i[1]) >= word\_max:

word\_max = len(i[1])

#slno = 1

print(f"+{'-'\*9}+{'-'\*9}+-{'-'\*word\_max}-+-{'-'\*price\_max}-+")

print(f"| Sl. No. | Code |{' '\*((word\_max-2)//2)}Name{' '\*((word\_max-2)//2 if ((word\_max-2)/2).is\_integer() else int(((word\_max-2)/2)+0.5))}| Price |")

print(f"+{'-'\*9}+{'-'\*9}+-{'-'\*word\_max}-+-{'-'\*price\_max}-+")

sum\_ = 0

for i in range(len(details)):

print(f"| {i+1} | {details[i][2]} |{' '\*((word\_max-(len(details[i][1])-2))//2)}{details[i][1]}{' '\*((word\_max-(len(details[i][1])-2))//2 if ((word\_max-(len(details[i][1])-2))/2).is\_integer() else int(((word\_max-(len(details[i][1])-2))/2)+0.5))}|{' '\*((price\_max+2)-(len(str(details[i][0])))-1)}{details[i][0]} |")

sum\_ += details[i][0]

print(f"+{'-'\*9}+{'-'\*9}+-{'-'\*word\_max}-+-{'-'\*price\_max}-+")

if total:

print(f"|{' '\*((16+word\_max+price\_max)-(len(str(sum\_))))}Total | {sum\_} |")

print(f"+{'-'\*((21+word\_max+price\_max)-(len(str(sum\_))))}-+-{'-'\*(len(str(sum\_)))}-+")

print(f"\n{'\*'\*30}")

def main():

database\_login()

val = 0

while val <4 and val >= 0:

print("\nChoose the number for action")

print("1) Make a Bill")

print("2) Add product in database")

print("3) Remove product from database")

print("4) EXIT!\n")

val = int(input("Give Val: "))

#print("\n")

if val == 1:

make\_bill()

elif val == 2:

add\_db()

elif val == 3:

remove\_db()

elif val == 4:

print("Shutting Down")

def database\_login():

global mydb,cursor

while True:

psdw = (input("Give your MySQL password: "))

try:

mydb = mqt.connect(host='localhost',user='root',password=psdw,database="shoe\_database")

cursor = mydb.cursor()

break

except:

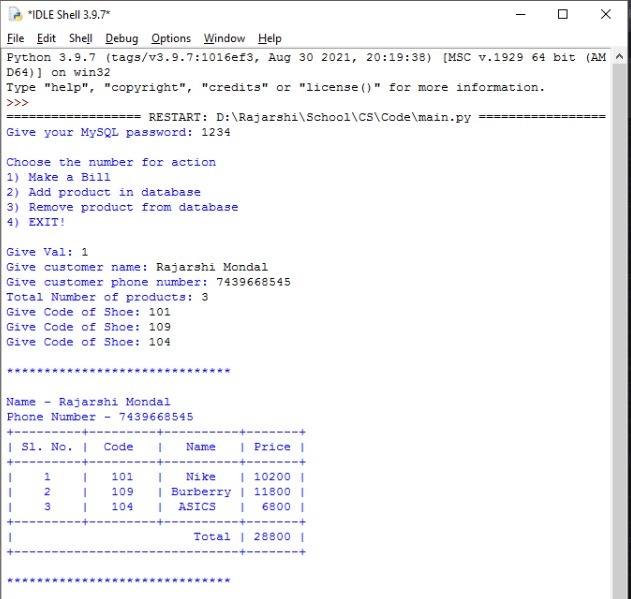
print("wrong Password, try again\n")

if \_\_name\_\_ == "\_\_main\_\_":

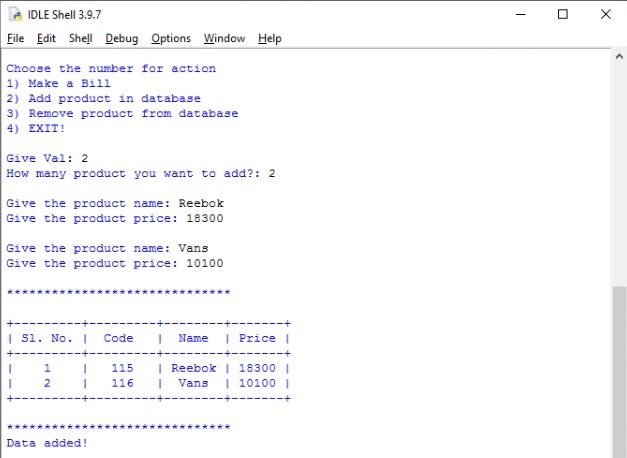
main()

**Output**

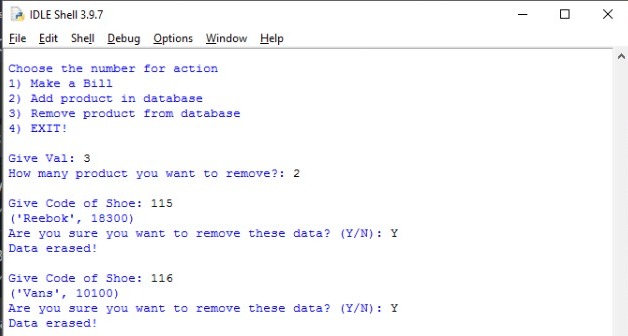
**Page showing bill making process:-**



**Page showing adding data in database:-**

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**Page showing removing data from database:-**

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**TESTING**

Software Testing is an empirical investigation conducted to provide stakeholders with information about the quality of the product or service under test, with respect to the context in which it is intended to operate. Software Testing also provides an objective and independent view of the software to allow the business to appreciate and understand the risks at implementation of the software. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs.

It can also be stated as the process of validating and verifying that a software program/application/product meets the business and technical requirements that guided its design and development, so that it works as expected and can be implemented with the same characteristics. Software Testing, depending on the testing method employed, can be implemented at any time in the development process, however the most test effort is employed after the requirements have been defined and coding process has been completed.

**HARDWARE AND SOFTWARE REQUIREMENTS**

* **Hardware**
  + Computer System
  + Monitor
  + Keyboard
  + Mouse
* **Software**
  + OS (Windows 7 or more)
  + Python (3.8 or more)
  + MySQL (8.0 or more)

**Bibliography:**

1. google.com
2. youtube.com
3. w3schools.com
4. stockoverflow.com