

QUIZ WIZARD

Quiz Wizard

Quiz Wizard

## Declaration

I hereby declare that the project work entitled Quiz Wizard submitted in partial fulfilment of the award of class 12 under the AISSCE 2023-20214 scheme in Computer Science is a bonafide record of the research carried out by me under the guidance of ***Mrs. Brighty Varghese***, ***Mrs. Jincy Swarup*** and ***Mrs. Soby Susan Babu*** and no part of it has been submitted for any other study.

**Name: Signature:**

## Acknowledgement

*First and foremost, I thank Lord Almighty for giving me this thought…*

*I am happy to express my profound sense of gratitude to Rev. Fr. Scaria Ethirett CMI, Principal, Placid Vidya Vihar for the encouragement he gave me throughout the course especially in the successful completion of this study. I am deeply indebted to my computer teachers Mrs. Brighty Varghese, Mrs. Jincy Swarup and Mrs. Soby Susan Babu for their valuable guidance and support which has been an indispensible factor in the successful completion this work.*

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Introduction

The "Quiz Wizard" is an innovative project designed to serve as a study

companion, making the learning process both enjoyable and engaging. With a

unique set of features, Quiz Wizard aims to create a personalized user experience

by allowing players to create individual profiles and maintain their quiz scores.

This facilitates healthy competition and encourages continuous improvement.

Key Features of Quiz Wizard:

1. Quiz Creation: Users can create their own quizzes, tailored to specific topics or subjects, providing a platform for knowledge-sharing and creativity.

2. Quiz Deletion: In instances where a quiz is no longer needed or relevant, users have the option to delete quizzes from their profile, ensuring a clutter-free experience.

3. High Score Viewing: The platform will maintain a record of high scores achieved by players, offering a sense of accomplishment and fostering healthy competition among users.

4. Play Quiz: Users can actively participate in quizzes created by others, broadening their knowledge and gaining valuable insights.

## Python and MySQL Review

### Python

Python is an open-source, object oriented, high-level programming language. The main features or Advantages of Python are:

 ***Platform Independent:*** It can be run across different platforms like Windows, Linux, Mac OS etc.,

 ***Readability:*** It is easy to read and understand as it has English-like structure.

 ***Object Oriented Language:*** It is an interactive interpreted and Object-oriented language

 ***Ample Availability of Libraries:*** It provides large standard libraries to solve a task

 ***GUI Programming:*** Python supports GUI programming.

 ***Dynamic Typing:*** Variable declaration is done automatically by the interpreter.

 ***Extensible, Extendable and Highly Efficient***

 ***Supports Garbage Collection:*** It has better memory management.

 ***Easily Compatible with other programming languages like C++, Java etc.,***

 ***Saves Time:*** Due to the availability of high-level datatypes and its dynamic typing feature.

### MySQL

MySQL is an open source and freely available Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). It provides excellent features for creating, storing, maintain and accessing data, stored in the form of databases and their respective tables.

Features of MySQL are:

 ***Ease of Use:*** It is very easy to use.

 ***No coding Required:*** It is a non-procedural and a unified language.

 ***Portable:*** It is compatible with other database like Dbase IV, FoxPro etc.

 ***Reliable:*** SQL provides a high level of well-defined commands that provide desired results without any ambiguity.

 ***Large Volume of Data can be stored.***

 ***MySQL is not case sensitive.***

 ***Powerful Language.***

 ***Freedom of data abstraction.***

### Python – MySQL interface

Python – MySQL connectivity enables one to implement the MySQL Client/Server protocol automatically in Python. The interface is

 ***Platform- independent***

 ***Faster and More efficient***

 ***Portable***

 ***Easy to migrate and port database application interface.***

 ***Python support MySQL cursors***

 ***It handles Open and Closed Connections***

## Method Description

## Method Description

Quiz Wizard is a sophisticated Graphical User Interface (GUI) study companion meticulously designed to empower students in their learning journey through engaging quizzes. Tailored for a diverse range of subjects, Quiz Wizard offers a comprehensive platform to augment the learning experience.

With Quiz Wizard, students have the opportunity to select from an array of subjects, unlocking a dynamic realm of knowledge. These thoughtfully curated quizzes serve as a conduit for deeper comprehension, encouraging active participation and retention.

The intuitive interface of Quiz Wizard ensures seamless navigation, providing a user-friendly experience for learners of all levels. Whether delving into mathematics, literature, or the sciences, Quiz Wizard remains a versatile tool adaptable to various academic disciplines.

**This Project Contains:**

* ***Main menu:*** Each student can select between playing the quiz or viewing the leaderboard.
* ***Play quiz:*** Students can select a quiz of their choice from an array of subjects.
* ***Leaderboard:*** Students can view their score and compare their progress among peers.

The program uses the modules

1)Colourama

2)termcolour

3)time

4)playmaths

5)scores

* + ***Pharmacy Details:*** This function helps to add, view, modify and delete Medicine details. With med ID and med Name to search them.
  + ***Service Details:*** This function helps to add, view, modify and staff details with Service ID and service Name to search them.
  + ***Appointment Details:*** This function helps to book, view, modify and cancel Appoints without clash with doctors appoint time and date
  + ***Admission Details:*** This function helps to check the admission and discharge details
  + ***Billing / Accounts:*** This function takes all the billings (ie) Pharmacy Billing, Service Billing, Admission Charges

This function helps the administrator to create a new package and scraps off unwanted data from the database. This function helps to enter the details of a new package into an existing set of records. This function helps to search and display the details of a particular package or the entire database. This function helps to an existing record from the database. This function helps to modify a record.

## System Specifications

#### Hardware

* Processor : Intel Core i3
* Memory : 4GB RAM

#### Software

* + Operating System: Windows 10 HOME 64 bit
  + Programming Language: Python 3.7
  + Database : MySQL 5.7

Flow of Control

Main Menu

Create quiz

Delete quiz

Exit

Play quiz

View High score

Check if new player

No

Yes

Create new player id player

Quiz Gameplay

Save quiz and update score

# SOURCE CODE

**#Database Creation**

**import mysql.connector as msq import tqdm**

**import time con=msq.connect(host='localhost',user='root',passwd='student',database='') cur=con.cursor()**

**if con.is\_connected():**

**cur.execute("create database if not exists hospital") cur.execute("use hospital")**

**cur.execute("create table patients\**

**(P\_ID varchar(7) primary key not null,\ P\_Name varchar(25),\**

**P\_Age int(3),\**

**P\_Gender varchar(10),\ P\_Address varchar(100),\**

**P\_PhNo varchar(15));")**

**for i in tqdm.tqdm(range(50)): time.sleep(0.001)**

**print("Table Patients Successfully Created") cur.execute("create table Staff\**

**(S\_ID varchar(5) primary key not null,\ S\_Name varchar(25),\**

**S\_Desig varchar(15),\ S\_Age int(3),\**

**S\_Gender varchar(15),\ S\_PhNo varchar(15),\**

**S\_Address varchar(100),\ S\_Dept varchar(25));")**

**for i in tqdm.tqdm(range(50)): time.sleep(0.001)**

**print("Table Staff Successfully Created") cur.execute("create table Pharmacy\**

**(Med\_ID varchar(7) primary key not null,\ Med\_Name varchar(30),\**

**Med\_Price int(5));") for i in tqdm.tqdm(range(50)):**

**time.sleep(0.001)**

**print("Table Pharmacy Successfully Created") cur.execute("create table Services\**

**(S\_ID varchar(10) primary key not null,\ S\_Name varchar(25),\**

**S\_Price int(5));") for i in tqdm.tqdm(range(50)):**

**time.sleep(0.001)**

**print("Table Services Successfully Created") cur.execute("create table Appointments\**

**(A\_ID varchar(10) PRIMARY KEY NOT NULL,\**

**P\_ID varchar(7) not null,\ S\_ID varchar(10),\**

**App\_Date date,\**

**App\_Time varchar(5),\**

**P\_Name varchar(30),\ P\_PhNo varchar(12));")**

**for i in tqdm.tqdm(range(50)): time.sleep(0.001)**

**print("Table Appointments Successfully Created")**

**cur.execute("Create Table Admission(Ad\_ID varchar(7) not null primary key,\**

**P\_ID varchar(15),\**

**P\_NAME varchar(50),\ P\_PhNo varchar(15),\**

**S\_ID varchar(7),\ S\_NAME varchar(50),\**

**R\_ID varchar(7),\ Ad\_date DATE,\**

**Ad\_Time TIME,\ Dis\_Date DATE,\**

**Dis\_Time TIME);")**

**for i in tqdm.tqdm(range(50)): time.sleep(0.001)**

**print("Table Admission Successfully Created") cur.execute('create table Billing\**

**(P\_ID varchar(7) not null,\ M\_Price int(8) Default 0 ,\**

**S\_Price int(8) default 0,\ Ad\_Price int(8) default 0,\**

**T\_Price int(10) default 0);') for i in tqdm.tqdm(range(50)):**

**time.sleep(0.001)**

**print('Table Billing Successfully Created') cur.execute('Create Table Accounts(BDate date not null,\**

**P\_ID varchar(10) not null,\**

**P\_Price int(10) not null default 0,\ S\_Price int(10) not null default 0,\**

**Ad\_Price int(10) not null default 0,\ T\_Price int(10) not null default 0);')**

**for i in tqdm.tqdm(range(50)): time.sleep(0.001)**

**print('Table Accounts Successfully Created') con.commit()**

**con.close() print("Connection closed")**

**else:**

**print("Error in connection")**

#Hospital Management print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*") print("\* \*")

print("\* Welcome To Hospital Management \*")

print("\* \*")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*") import mysql.connector as msq

con=msq.connect(host='localhost',user='root',passwd='student',database='hospital') cur=con.cursor()

cur.execute('set autocommit=1') x=0

while x==0:

print(" ") print("| 1:Enter Admin Mode |") print("| 2:Exit The Software |") print(" ") choice=input("Enter Your Choice : ")

if choice=='1': print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*") print("| Welcome To Admin Mode |") print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*") x=1

import stdiomask

passwd=stdiomask.getpass(prompt='Enter the Password : ',mask='\*') if passwd=='':

while x==1:

print(" ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Patient Details** | **|")** |
| **print("|** | **2:Staff Details** | **|")** |
| **print("|** | **3:Pharmacy Details** | **|")** |
| **print("|** | **4:Service Details** | **|")** |
| **print("|** | **5:Appointment Details** | **|")** |
| **print("|** | **6:Admission Details** | **|")** |
| **print("|** | **7:Billing / Accounts** | **|")** |
| **print("|** | **8:Return To Main Menu** | **|")** |

print(" ") x=2

ch=input("Enter your choice : ") if ch=='1':

while x==2:

print(" ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Add Patient Details** | **|")** |
| **print("|** | **2:View Patient Details** | **|")** |
| **print("|** | **3:Modify Patient Details** | **|")** |
| **print("|** | **4:Delete Patient Record** | **|")** |
| **print("|** | **5:Back to Previous Menu** | **|")** |

print(" ") choice=input("Enter Your Choice : ")

if choice=='1':

sql='Select COUNT(P\_ID) from Patients;' cur.execute(sql)

r=cur.fetchall() n=r[0][0]

cur.execute('Select P\_ID from Patients;') rs=cur.fetchall()

if n==0:

P\_ID='P1000'

P\_PhNo=%s'

else:

x=rs[n-1][0]

a=int(x[1:]) P\_ID='P'+str(a+1)

P\_Name = input("Enter the Patient Name : ") P\_Age=int(input("Enter Patient Age : ")) P\_Gender=input("Enter Patient Gender : ") P\_Address=input("Enter Patient Address : ") P\_PhNo=input("Enter Patient Phone Number : ") sql="insert into Patients values(%s,%s,%s,%s,%s,%s)" v=(P\_ID,P\_Name,P\_Age,P\_Gender,P\_Address,P\_PhNo) cur.execute(sql,v)

print('Record Added Successfully ') print("Your Patient ID is ",P\_ID) x=2

elif choice=='2': x=4

while x==4:

print(" ") print("| 1: Use Patient ID as Key |") print("| 2: Use Mobile Number as Key |") print(" ") opt=input("Enter Your Choice : ")

if opt=='1':

ids=input("Enter The Patient ID : ") break

elif opt=='2':

ids=input("Enter Mobile Number : ") break

else:

print("Invalid Choice") print("Please Enter Either 1 or 2 ")

if choice=='2':

if con.is\_connected(): cur=con.cursor()

sql="select exists (select \* from patients\ where P\_ID=%s or P\_PhNo=%s)"

idsd=(ids,ids) cur.execute(sql,(idsd)) rs=cur.fetchall()

if rs[0][0]==0:

print("Patient Record does not exist") x=2

else:

sql='select \* from patients where P\_ID=%s or

idsd=(ids, ids) cur.execute(sql,idsd) r=cur.fetchall()

for i in r:

print("Patient ID : ",i[0])

print("Patient Name : ",i[1])

print("Patient Age : ",i[2]) print("Patient Gender : ",i[3]) print("Patient Address : ",i[4]) print("Patient Phone Number : ",i[5])

x=2

|")

|")

|")

|")

|")

|")

")

elif choice=='3':

ids = input("Enter the Patient ID : ") if con.is\_connected():

cur=con.cursor()

sql="select exists (select \* from patients\ where P\_ID=%s or P\_PhNo=%s)"

idsd=(ids,ids) cur.execute(sql,(idsd)) rs=cur.fetchall()

if rs[0][0]==0:

print("Patient Record does not exist") x=2

else:

x=3

while x==3:

**print(" ") print("| 1:Edit Patient Name\**

print("| 2:Edit Patient Age\

print("| 3:Edit Patient Gender\

print("| 4:Edit Patient Address\

print("| 5:Edit Patient Phone No\

print("| 6:Go Back\

print(" ch=input("Enter Your Choice : ")

if ch=='1':

nm=input("Enter The Name : ") sql="update patients\

set P\_Name=%s\ where P\_ID=%s"

v=(nm,ids,) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='2':

ag=input("Enter The Age : ") sql="update patients\

set P\_Age=%s\ where P\_ID=%s"

v=(ag,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='3':

gd=input("Enter The Gender : ") sql="update patients\

set P\_Gender=%s\ where P\_ID=%s"

v=(gd,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='4':

ad=input("Enter The Address : ")

sql="update patients\ set P\_Address=%s\ where P\_ID=%s"

v=(ad,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='5':

pn=input("Enter The Phone No : ") sql="update patients\

set P\_PhNo=%s\ where P\_ID=%s"

v=(pn,ids,) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='6':

x=2 break

else:

print("Invalid choice") x=3

elif choice=='4':

ids = input("Enter the Patient ID : ") if con.is\_connected():

cur=con.cursor()

sql="select exists (select \* from patients\ where P\_ID=%s or P\_PhNo=%s)"

idsd=(ids,ids) cur.execute(sql,(idsd)) rs=cur.fetchall()

if rs[0][0]==0:

print("Patient Record does not exist") x=2

else:

sql="Delete from Patients\ where P\_ID=%s"

v=(ids,) cur.execute(sql,v)

print("Record Deleted Successfully") x=2

elif choice=='5':

print("Returning To Previous Menu") x=1

break else:

print("Invalid Choice") elif ch=='2':

x=2

while x==2:

print(" ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Add Staff Details** | **|")** |
| **print("|** | **2:View Staff Details** | **|")** |
| **print("|** | **3:Modify Staff Details** | **|")** |
| **print("|** | **4:Delete Staff Details** | **|")** |
| **print("|** | **5:Back to Previous Menu** | **|")** |

print(" ") choice=input("Enter Your Choice : ")

if choice=='1':

sql='Select COUNT(S\_ID) from Staff;' cur.execute(sql)

r=cur.fetchall() n=r[0][0]

cur.execute('Select S\_ID from Staff;') rs=cur.fetchall()

if n==0:

Sid='S1000'

else:

x=rs[n-1][0]

a=int(x[1:]) Sid='S'+str(a+1)

Sname=input("Enter Staff Name : ") Sdesig=input("Enter Staff Designation : ") Sage=int(input("Enter Staff Age : ")) Sgender=input("Enter Staff Gender : ") Saddress=input("Enter Staff Address : ") Sphoneno=input("Enter Staff Phone number : ") Sdepartment=input("Enter The Department : ")

sql="insert into staff values(%s,%s,%s,%s,%s,%s,%s,%s)"

v=(Sid,Sname,Sdesig,Sage,Sgender,Sphoneno,Saddress,Sdepartment)

cur.execute(sql,v)

print("Record Added Succesfully") x=2

elif choice=='2' or choice=='3' or choice=='4': x=4

while x==4:

print(" ") print("| 1: Use Staff ID as Key |") print("| 2: Use Staff Name as Key |") print(" ") opt=input("Enter choice : ")

if opt=='1':

ids=input("Enter The Staff ID : ") break

elif opt=='2':

ids=input("Enter Staff Name : ") break

else:

print("Invalid Choice") print("Please Enter Either 1 or 2 ")

if choice=='2':

if con.is\_connected(): cur=con.cursor()

sql="select exists (select \* from staff\ where S\_ID=%s or S\_Name=%s)"

idsd=(ids,ids) cur.execute(sql,(idsd)) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Key") else:

sql='select \* from staff where S\_ID=%s or\

. S\_Name=%s'

idsd=(ids,ids) cur.execute(sql,idsd)

x=2

r=cur.fetchall() print("Staff ID : ",r[0][0])

print("Staff Name : ",r[0][1])

print("Staff Age : ",r[0][3])

print("Staff Gender : ",r[0][4]) print("Staff Phone Number : ",r[0][5]) print("Staff Address : ",r[0][6]) print("Staff Designation : ",r[0][2]) print("Staff Department : ",r[0][7])

")

|")

|")

|")

|")

|")

|")

|")

|")

")

elif choice=='3': x=3

while x==3:

print(" print("| 1:Edit Staff Name\

print("| 2:Edit Staff Age\

print("| 3:Edit Staff Gender\

print("| 4:Edit Staff Address\

print("| 5:Edit Staff Phone No\

print("| 6:Edit Staff Designation\

print("| 7:Edit Staff Department\

print("| 8:Go Back \

print(" ch=input("Enter Your Choice : ")

if ch=='1':

nm=input("Enter The Name : ") sql="update staff\

set S\_Name=%s\

where S\_ID=%s or S\_Name=%s" v=(nm,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='2':

ag=input("Enter The Age : ") sql="update staff\

set S\_Age=%s\

where S\_ID=%s or S\_Name=%s" v=(ag,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='3':

gd=input("Enter The Gender : ") sql="update staff\

set S\_Gender=%s\

where S\_ID=%s or S\_Name=%s" v=(gd,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='4':

ad=input("Enter The Address : ") sql="update staff\

set S\_Address=%s\

where S\_ID=%s or S\_Name=%s" v=(ad,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='5':

pn=input("Enter The Phone No : ") sql="update staff\

set S\_PhNo=%s\

where S\_ID=%s or S\_Name=%s" v=(pn,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='6':

desig=input("Enter The Designation : ") sql="update staff\

set S\_Desig=%s\

where S\_ID=%s or S\_Name=%s" v=(desig,ids,ids) cur.execute(sql,v)

elif ch=='7':

dept=input("Enter The Department : ") sql="update staff\

set S\_Dept=%s\

where S\_ID=%s or S\_name=%s" v=(dept,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='8':

x=2

print("Returning to Previous Menu") break

else:

print("Invalid choice") x=3

elif choice=='4': sql="Delete from Staff\

where S\_ID=%s or S\_Name=%s" v=(ids,ids)

cur.execute(sql,v)

print("Record Deleted Successfully") x=2

elif choice=='5':

print("Returning To Previous Menu") x=1

break else:

print("Invalid Choice")

elif ch=='3':

x=2

while x==2:

print(" ")

print(" ") choice=input("Enter Your Choice : ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Add Meds Details** | **|")** |
| **print("|** | **2:View Meds Details** | **|")** |
| **print("|** | **3:Modify Meds details** | **|")** |
| **print("|** | **4:Delete Meds Details** | **|")** |
| **print("|** | **5:Back to Previous Menu** | **|")** |

if choice=='1':

sql='Select COUNT(Med\_ID) from Pharmacy;' cur.execute(sql)

r=cur.fetchall() n=r[0][0]

cur.execute('Select Med\_ID from Pharmacy;') rs=cur.fetchall()

if n==0:

Med\_ID='M1000'

else:

x=rs[n-1][0]

a=int(x[1:]) Med\_ID='M'+str(a+1)

Med\_Name=input("Enter The Med Name : ") Med\_Price=int(input("Enter The Price : ")) sql="insert into pharmacy values(%s,%s,%s)" v=(Med\_ID,Med\_Name,Med\_Price) cur.execute(sql,v)

print("Record Added Succesfully") x=2

elif choice=='2' or choice=='3' or choice=='4': x=4

while x==4:

print(" ") print("| 1: Use Med ID as Key |") print("| 2: Use Med Name as Key |") print(" ") opt=input("Enter choice : ")

if opt=='1':

ids=input("Enter The Med ID : ") break

elif opt=='2':

ids=input("Enter Med Name : ") break

else:

print("Invalid Choice") print("Please Enter Either 1 or 2 ")

if choice=='2':

if con.is\_connected(): cur=con.cursor()

sql="select exists (select \* from pharmacy\ where Med\_Name=%s or Med\_Id=%s)"

idsd=(ids,ids) cur.execute(sql,(idsd)) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Key") else:

sql='select \* from pharmacy where\

. Med\_Name=%s or Med\_ID=%s'

")

|")

|")

|")

")

idsd=(ids,ids) cur.execute(sql,idsd) r=cur.fetchall() print("Med ID : ",r[0][0])

print("Med Name : ",r[0][1])

print("Med Price : ",r[0][2]) x=2

elif choice=='3': x=3

while x==3:

print(" print("| 1:Edit Med Name\

print("| 2:Edit Med Price\

print("| 3:Go Back\

print(" ch=input("Enter Your Choice : ")

if ch=='1':

nm=input("Enter The Med Name : ") sql="update pharmacy\

set Med\_Name=%s\

where Med\_Name=%s or Med\_Id=%s" v=(nm,ids,ids)

cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='2':

mp=input("Enter The Price: ") sql="update pharmacy\

set Med\_Price=%s\

where Med\_Name=%s or Med\_Id=%s" v=(mp,ids,ids)

cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='3':

print("Returning Back To Previous Menu") x=2

else:

print("Invalid choice") x=3

elif choice=='4':

sql="Delete from pharmacy\

where Med\_Name=%s or Med\_Id=%s" v=(ids,ids)

cur.execute(sql,v)

print("Record Deleted Successfully") x=2

elif choice=='5':

print("Returning To Main Menu") x=1

break else:

print("Invalid Choice") elif ch=='4':

x=2

while x==2:

print(" ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Add Service Details** | **|")** |
| **print("|** | **2:View Service Details** | **|")** |
| **print("|** | **3:Modify Service Details** | **|")** |
| **print("|** | **4:Delete Service Details** | **|")** |
| **print("|** | **5:Back to Previous Menu** | **|")** |

print(" ") choice=input("Enter Your Choice : ")

if choice=='1':

sql='Select COUNT(S\_ID) from services;' cur.execute(sql)

r=cur.fetchall() n=r[0][0]

cur.execute('Select S\_ID from services;') rs=cur.fetchall()

if n==0:

S\_ID='Sv1000'

else:

x=rs[n-1][0]

a=int(x[2:]) S\_ID='Sv'+str(a+1)

S\_Name=input("Enter The Service Name : ") S\_Price=int(input("Enter The Price : ")) sql="insert into services values(%s,%s,%s)" v=(S\_ID,S\_Name,S\_Price)

cur.execute(sql,v)

print("Record Added Succesfully") x=2

elif choice=='2' or choice=='3' or choice=='4': x=4

while x==4:

print(" ") print("| 1: Use Service ID as Key |") print("| 2: Use Service Name as Key |") print(" ") opt=input("Enter choice : ")

if opt=='1':

ids=input("Enter The Service ID : ") break

elif opt=='2':

ids=input("Enter Service Name : ") break

else:

print("Invalid Choice") print("Please Enter Either 1 or 2 ")

if choice=='2':

if con.is\_connected(): cur=con.cursor()

sql="select exists (select \* from services\ where S\_Name=%s or S\_Id=%s)"

idsd=(ids,ids) cur.execute(sql,(idsd)) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Key")

else:

sql='select \* from services where S\_Name=%s\

. or S\_ID=%s'

idsd=(ids,ids) cur.execute(sql,idsd) r=cur.fetchall() print("Service ID : ",r[0][0])

print("Service Name : ",r[0][1])

print("Service Price : ",r[0][2]) x=2

elif choice=='3': x=3

while x==3:

print("

")

|")

|")

|")

")

print("| 1:Edit Service Name\

print("| 2:Edit Service Price\

print("| 3:Go Back\

print(" ch=input("Enter Your Choice : ")

if ch=='1':

nm=input("Enter The Service Name : ") sql="update Services\

set S\_Name=%s\

where S\_Name=%s or S\_ID=%s" v=(nm,ids,ids) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='2':

mp=input("Enter The Price: ") sql="update services\

set S\_Price=%s\

where S\_Name=%s or S\_Id=%s" v=(mp,ids,ids) cur.execute(sql,v)

print("Record Successfully Updated") elif ch=='3':

print("Returning To Previous Menu") x=2

else:

print("Invalid choice") elif choice=='4':

sql="Delete from services\

where S\_Name=%s or S\_Id=%s" v=(ids,ids)

cur.execute(sql,v)

print("Record Successfully Deleted") x=2

elif choice=='5':

print("Returning To Previous Menu") x=1

break else:

print("Invalid Choice") elif ch=='5':

x=2

while x==2:

print(" ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Book an Appointment** | **|")** |
| **print("|** | **2:View Appointment** | **|")** |
| **print("|** | **3:Modify Appointments** | **|")** |
| **print("|** | **4:Cancel Appintments** | **|")** |
| **print("|** | **5:Back to Previous Menu** | **|")** |

print(" ") choice=input("Enter Your Choice : ")

if choice=='1': x=4

while x==4:

print(" ") print("| 1:Existing Patient |")

print("| 2:New Patient |") print(" ") choice=input("Enter Your Choice : ")

if choice=='2':

print("Enter The Patient Details") sql='Select COUNT(P\_ID) from Patients;' cur.execute(sql)

r=cur.fetchall() n=r[0][0]

cur.execute('Select P\_ID from Patients;') rs=cur.fetchall()

if n==0:

P\_ID='P1000'

else:

x=rs[n-1][0]

a=int(x[1:]) P\_ID='P'+str(a+1)

P\_Name=input("Enter Patient Name : ") P\_Age=int(input("Enter Patient Age : ")) P\_Gender=input("Enter Patient Gender : ") P\_Address=input("Enter Patient Address : ") P\_PhNo=input("Enter Patient Phone Number : ") sql="insert into Patients\

. values(%s,%s,%s,%s,%s,%s)"

v=(P\_ID,P\_Name,P\_Age,P\_Gender,P\_Address,P\_PhNo) cur.execute(sql,v)

print('Record Added Successfully') print("Your Patient ID is ",P\_ID) x=3

elif choice=='1':

P\_ID=input("Enter The Patient ID : ") break

else:

print("Invalid Choice")

sql='Select COUNT(A\_ID) from Appointments;' cur.execute(sql)

r=cur.fetchall() n=r[0][0]

cur.execute('Select A\_ID from Appointments;')

rs=cur.fetchall() if n==0:

A\_ID='A1000'

else:

x=rs[n-1][0]

a=int(x[1:]) A\_ID='A'+str(a+1)

S\_ID=input("Enter The Staff ID : ") x=6

while x==6:

App\_Year=input("Enter The Year : ") App\_Month=input("Enter The Month : ") App\_Day=input("Enter The Day : ") App\_Date=App\_Year+'-'+App\_Month+'-'+App\_Day import datetime as dt

y=dt.date.today()

if str(App\_Date) < str(y):

print('Please enter a date in future') x=6

else:

x=3 while x==3:

App\_Time=input("Enter The Time Slot : ") sql='select \* from appointments where app\_date=%s\

. and S\_ID=%s'

ids=(App\_Date,S\_ID) cur.execute(sql,ids) r=cur.fetchall()

if r==[]:

x=5 else:

for i in r:

if i[3]==App\_Time:

print(" \

")

|")

")

while x==5:

print("| Time Slot Unavailable\ print(" \

x=3 break

else:

x=5 continue

ids=(P\_ID,)

sql='select \* from patients where P\_ID=%s' cur.execute(sql,ids)

r=cur.fetchall() for i in r:

P\_Name=i[1] P\_PhNo=i[5]

sql="insert into Appointments\

. values(%s,%s,%s,%s,%s,%s,%s)"

v=(A\_ID,P\_ID,S\_ID,App\_Date,App\_Time,P\_Name,P\_PhNo) cur.execute(sql,v)

print("Record Added Succesfully")

print("Your Appintment ID is ",A\_ID) x=2

elif choice=='2':

A\_ID=input("Enter The Appointment ID : ") if con.is\_connected():

cur=con.cursor()

sql="select exists (select \* from appointments\ where A\_Id=%s)"

ids=(A\_ID,) cur.execute(sql,ids) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Key") else:

sql='select \* from appointments where A\_ID=%s' ids=(A\_ID,)

cur.execute(sql,ids) r=cur.fetchall()

for i in r:

print("Appointment ID : ",i[0]) print("Patient ID : ",i[1])

print("Patient Name : ",i[5]) print("Patient Phone Number : ",i[6]) print("Assigned Doctor ID : ",i[2]) print("Appointment Date : ",i[3]) print("Appoitment Time : ",i[4])

x=2 elif choice=='3':

A\_ID=input("Enter The Appointment ID : ") x=4

while x==4:

print(" ") print("| 1:Edit Doctor ID |") print("| 2:Edit Appointment Date |") print("| 3:Edit Appointment Time |") print("| 4:Go Back |") print(" ") ch=input("Enter Your Choice : ")

if ch=='1':

nm=input("Enter The Doctor ID : ") sql="update Appointments\

set S\_ID=%s\ where A\_ID=%s"

v=(nm,A\_ID) cur.execute(sql,v)

print("Record Updated Successfully") elif ch=='2':

x=6

while x==6:

App\_Year=input("Enter The Year : ") App\_Month=input("Enter The Month : ") App\_Day=input("Enter The Day : ") App\_Date=App\_Year+'-'+App\_Month+'-'+App\_Day import datetime as dt

Y=dt.date.today()

if str(App\_Date) < str(Y):

print('Please enter a date in future')

x=6 else:

x=4

if x==4:

sql="update Appointments\ set App\_Date=%s\ where A\_ID=%s"

v=(App\_Date,A\_ID) cur.execute(sql,v)

print("Record Updated Successfully") x=4

elif ch=='3':

mp=input("Enter The Appointment Time: ") sql="update Appointments\

set App\_Time=%s\ where A\_ID=%s"

v=(mp,A\_ID) cur.execute(sql,v)

print("Record Updated Successfully") x=4

elif ch=='4':

x=2 else:

print("Invalid choice") elif choice=='4':

A\_ID=input("Enter The Appointment Id : ") sql="Delete from Appointments\

where A\_ID=%s" v=(A\_ID,)

cur.execute(sql,v)

print("Appointment Cancelled Successfully") x=2

elif choice=='5':

print("Returning To Previous Menu") x=1

break else:

print("Invalid Choice") elif ch=='6':

x=2

while x==2:

print(" ") print(" 1:Admission |")

print(" 2:Discharge |") print(" 3:View Admission Details |") print(" 4:Go Back To Previous Menu |") print(" ") choice=input("Enter Your Choice : ")

if choice=='1':

cur.execute('Select COUNT(Ad\_ID) from Admission;') r=cur.fetchall()

n=r[0][0]

cur.execute('Select Ad\_ID from Admission;') rs=cur.fetchall()

if n==0:

AD\_ID='Ad1000'

else:

x=rs[n-1][0]

a=int(x[2:]) AD\_ID='Ad'+str(a+1)

P\_ID = input("Enter the Patient ID : ") S\_ID = input("Enter the Staff ID : ")

R\_ID = input("Enter The Accomodation ID : ") v=(AD\_ID,P\_ID,S\_ID,R\_ID)

sql='Insert into Admission(Ad\_ID,P\_ID,S\_ID,R\_ID)\

. values(%s,%s,%s,%s);'

cur.execute(sql,v)

sql='Update admission set P\_Name=(select P\_Name from\

. Patients where P\_ID=%s),\

P\_phno=(select P\_Phno from

Patients where P\_ID=%s);'

v=(P\_ID,P\_ID)

cur.execute(sql,v)

sql='Update admission set S\_Name=(select S\_Name from\

. Staff where S\_ID=%s);'

v=(S\_ID,)

cur.execute(sql,v) import datetime as dt date=dt.date.today() time=dt.datetime.now()

sql='Update admission set Ad\_Date=%s,Ad\_Time=%s where\

. Ad\_ID=%s;'

v=(date,time,AD\_ID) cur.execute(sql,v)

print("Patient Admitted Successfully") print("Your Admission ID is ",AD\_ID) x=2

elif choice=='2':

AD\_ID =input("Enter the Admission ID : ") import datetime as dt date=dt.date.today() time=dt.datetime.now()

sql='Update admission set Dis\_Date=%s,Dis\_Time=%s where\

Ad\_ID=%s;'

v=(date,time,AD\_ID) cur.execute(sql,v)

print("Patient Discharged Successfully") x=2

elif choice=='3':

AD\_ID=input("Enter The Admission Id : ") cur=con.cursor()

sql="select exists (select \* from admission\ where AD\_Id=%s)"

ids=(AD\_ID,) cur.execute(sql,ids) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Key") else:

sql='select \* from admission where AD\_ID=%s' ids=(AD\_ID,)

cur.execute(sql,ids) r=cur.fetchall()

for i in r:

print("Admission ID : ",i[0])

print("Patient ID : ",i[1])

print("Patient Name : ",i[2]) print("Patient Phone Number : ",i[3]) print("Staff ID : ",i[4])

print("Staff Name : ",i[5]) print("Accomodation ID : ",i[6]) print("Appointment Date : ",i[7]) print("Appoitment Time : ",i[8]) if i[9]==None:

print("Patient Not Yet Discharged") else:

print("Discharge Date ; ",i[9]) print("Discharge Time : ",i[10])

x=2

elif choice=='4':

print("Returning To Previous Menu") x=1

else:

print("Invalid Choice") x=2

elif ch=='7':

x=2

while x==2 and con.is\_connected():

print(" ")

|  |  |  |
| --- | --- | --- |
| **print("|** | **1:Pharmacy Billing** | **|")** |
| **print("|** | **2:Service Billing** | **|")** |
| **print("|** | **3:Admission Charges** | **|")** |
| **print("|** | **4:Final Invoice** | **|")** |
| **print("|** | **5:Change Status** | **|")** |
| **print("|** | **6:View Accounts** | **|")** |
| **print("|** | **7:Return To Main Menu** | **|")** |

print(" ") ch=input("Enter Your Choice : ")

if ch in ['1','2','3','4']:

P\_ID=input("Enter The Patient ID : ") sql="select exists (select \* from patients\

where P\_ID=%s);" cur.execute(sql,(P\_ID,)) rs=cur.fetchall()

if rs[0][0]==0:

print("Patient Record Does Not Exist") continue

else:

sql="select exists (select P\_ID from Billing where\

P\_ID=%s);"

cur.execute(sql,(P\_ID,)) r=cur.fetchall()

if r[0][0]==0:

sql='insert into Billing(P\_ID) values(%s);' cur.execute(sql,(P\_ID,))

else:

pass

if ch=='1':

sum=0 x=3

while x==3:

Med\_ID=input("Enter The Medicine ID : ") sql="select exists (select \* from pharmacy\

where Med\_Id=%s)" cur.execute(sql,(Med\_ID,)) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Medicine ID") x=2

else:

Qty=int(input("Enter The Quantity : ")) sql='select Med\_Price from Pharmacy where\

Med\_ID=%s;'

v=(Med\_ID,) cur.execute(sql,v) r=cur.fetchall() p=r[0][0]

sum+=(p\*Qty) sql='update Billing\

Set M\_Price=M\_Price+%s\ where P\_ID=%s;'

cur.execute(sql,(sum,P\_ID))

ch=input(("Do You Want to Continue? - Y or N-")) if ch.upper()=='Y':

continue

elif ch.upper()=='N': x=2

else:

print("Invalid Choice") print('Returning to Previous Menu') x=2

elif ch=='2': sum=0 x=3

while x==3:

S\_ID=input("Enter The Service ID : ") sql="select exists (select \* from services\

where S\_ID=%s)" cur.execute(sql,(S\_ID,)) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Service ID") x=2

else:

Qty=int(input("Enter The Quantity : ")) sql='select S\_Price from Services where\

S\_ID=%s;'

v=(S\_ID,)

cur.execute(sql,v) r=cur.fetchall() p=r[0][0]

sum+=(p\*Qty) sql='update Billing\

Set S\_Price=S\_Price+%s\ where P\_ID=%s;'

cur.execute(sql,(sum,P\_ID))

ch=input(("Do You Want to Continue? - Y or N-")) if ch.upper()=='Y':

continue

elif ch.upper()=='N': x=2

else:

print("Invalid Choice") print('Returning to Previous Menu') x=2

elif ch=='3':

AD\_ID=input("Enter The Admission ID :") sql="select exists (select \* from admission\

where AD\_Id=%s)" cur.execute(sql,(AD\_ID,)) rs=cur.fetchall()

if rs[0][0]==0:

print("Invalid Admission ID") x=2

else:

Ad\_charge=int(input("Enter The Admission Charge :\

"))

R\_rent=int(input("Enter The Room Charge : ")) sql='select Ad\_date,Dis\_date from Admission where\

Ad\_ID=%s and Dis\_date is NOT NULL;' cur.execute(sql,(AD\_ID,))

r=cur.fetchall() A\_date=r[0][0] D\_date=r[0][1]

sql='select datediff(%s,%s);' cur.execute(sql,(D\_date,A\_date)) r=cur.fetchall()

n=r[0][0]

sum=Ad\_charge+(R\_rent\*n) sql='update Billing\

Set Ad\_Price=Ad\_Price+%s\ where P\_ID=%s;'

cur.execute(sql,(sum,P\_ID)) x=2

elif ch=='4':

sql='select \* from patients where P\_ID=%s' cur.execute(sql,(P\_ID,))

r=cur.fetchall() for i in r:

P\_Name=i[1] P\_Ads=i[4] P\_Phno=i[5]

sql='select M\_Price,S\_Price,Ad\_Price from Billing\ where P\_ID=%s;'

cur.execute(sql,(P\_ID,)) r=cur.fetchall() Mpr=r[0][0]

Spr=r[0][1]

Adpr=r[0][2] total=Mpr+Spr+Adpr

tax=int(input("Enter The Percentage Tax : ")) gtotal=total+(total\*tax/100)

d = {'|1': ["Pharmacy",Mpr,'|'],

'|2': ["Services",Spr,'|'],

'|3': ["Admission",Adpr,'|']}

import datetime as dt date=dt.date.today() time=dt.datetime.now() ti=time.strftime("%X") l=len(P\_Name) m=len(P\_Ads) n=len(P\_Phno) a=len(str(total)) b=len(str(tax)) c=len(str(gtotal))

print("+

+")

print("| HOSPITAL

|")

', ti,'|')

print("|",date ,'

print("|Name : ", P\_Name,(66-l)\*' ','|')

print("|Address : ",P\_Ads,(63-m)\*' ','|')

print("|Phone Number : ",P\_Phno,(58-n)\*' ','|')

print("{:<8} {:<15} {:<51}

{}".format('|S.No','Department','Total Bill','|'))

for k, v in d.items():

Dept,Total,x=v

print("{:<8} {:<15} {:<51}\

{}".format(k,Dept,Total,x)) print("+ \

+")

print("|Total Amount : ",total,(58-a)\*' ','|')

print("|Tax : ",tax,'%',(65-b)\*' ','|')

print("|Amount Payable : ",gtotal,(56-c)\*' ','|') print("+ \

+")

sql='update Billing\ set T\_Price=%s\

where p\_ID=%s;' cur.execute(sql,(gtotal,P\_ID)) x=2

elif ch=='5':

P\_ID=input('Enter The Patient ID : ') sql="select exists (select \* from patients\

where P\_ID=%s);" cur.execute(sql,(P\_ID,)) rs=cur.fetchall()

if rs[0][0]==0:

print("Patient Record Does Not Exist") else:

sql='Select \* from Billing where P\_ID =%s;' cur.execute(sql,(P\_ID,))

r=cur.fetchall() if len(r)!=0:

print('Are You Sure That You Want to Update The\

Status')

k=input('Input Your choice - Y or N :') if k.upper()=='Y':

import datetime as dt date=dt.date.today()

sql='insert into Accounts(BDate,P\_ID)\

values(%s,%s);'

cur.execute(sql,(date,P\_ID)) sql='update Accounts A\

Inner Join\

Billing B ON A.P\_ID = B.P\_ID\ set A.P\_Price=B.M\_Price,\

A.S\_Price=B.S\_Price,\ A.Ad\_Price=B.Ad\_Price,\

A.T\_Price=B.T\_Price;'

cur.execute(sql) sql='Delete from Billing\

Where P\_ID = %s;' cur.execute(sql,(P\_ID,)) print("Status Updated Successfully")

elif k.upper()=='N': x=2

else:

print('Invalid Choice') x=2

elif len(r)==0:

sql="select exists (select \* from\ ACCOUNTS\

where P\_ID=%s);" cur.execute(sql,(P\_ID,)) rs=cur.fetchall()

if rs[0][0]==0:

print('Payment Record Does not exist') else:

print('Status has Already been Updated')

elif ch=='6':

print(" ") print("| View Accounts of |")

print("| 1: Particular Day |")

print("| 2: Range of Days |") print("| 3: Back to Previous Menu |") print(" ") k=input('Enter Your Choice : ')

if k =='1':

A\_Year=input("Enter The Year : ") A\_Month=input("Enter The Month : ") A\_Day=input("Enter The Day : ") A\_Date=A\_Year+'-'+A\_Month+'-'+A\_Day sql='select \* from ACCOUNTS\

where BDate=%s;' cur.execute(sql,(A\_Date,)) r=cur.fetchall()

if len(r)==0:

print('No Payments Accounted on',A\_Date) elif len(r)>0:

print('+ \

+')

print("{:<8}{:<15}{:<15}{:<15}{:<15}{:<15}{:<19}".format('|','Patient

Id','Pharmacy','Service','Admission','Total Bill','|'))

for i in r:

d = {'|': [i[1],i[2],i[3],i[4],i[5],'|']}

for k, v in d.items():

P\_id,MP,SP,AP,TP,x=v

print("{:<8}{:<15}{:<15}{:<15}{:<15}{:<15}{:<15}".format(k,P\_id,MP,SP,AP,TP,x))

x=2

print('+ \

+')

elif k=='2':

A\_Year=input("Enter The Year : ") A\_Month=input("Enter The Month : ") A\_Day=input("Enter The Day : ") Date1=A\_Year+'-'+A\_Month+'-'+A\_Day A\_Year=input("Enter The Year : ") A\_Month=input("Enter The Month : ") A\_Day=input("Enter The Day : ") Date2=A\_Year+'-'+A\_Month+'-'+A\_Day sql='select \* from ACCOUNTS\

where BDate between %s and %s;' cur.execute(sql,(Date1,Date2)) r=cur.fetchall()

if len(r)==0:

print('No Payments Accounted between ',Date1 ,

'and', Date2)

else:

print('+ \

+')

print("{:<8}{:<15}{:<15}{:<15}{:<15}{:<15}{:<15}{:<15}".format('|','Date','Patient

Id','Pharmacy','Service','Admission','Total Bill','|'))

print('+ \

+')

for i in r:

d = {'|': [

str(i[0]),i[1],i[2],i[3],i[4],i[5],'|']}

for k, v in d.items(): da,P\_id,MP,SP,AP,TP,x=v

print("{:<8}{:<15}{:<15}{:<15}{:<15}{:<15}{:<15}{:<15}".format(k,da,P\_id,MP,SP,AP,TP

,x))

print('+ \

+')

x=2 elif k=='3':

x=2 else:

print('Invalid Choice') print('Returning To Previous Menu') x=2

elif ch=='7':

print('Returning Previous Menu') x=1

else:

print('Invaild Choice') print('Returning To Previous Menu') x=1

elif ch=='8':

print("Returning To Main Menu") x=0

break else:

print("Invalid Choice") print("Re-Enter Valid Choice") x=1

else:

print("Incorrect Password ")

print("Please Enter The Correct Password ") x=0

elif choice=='2':

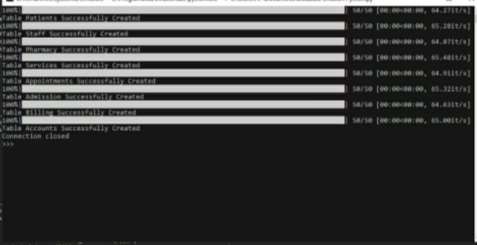
print("Exitting From Software") break

else:

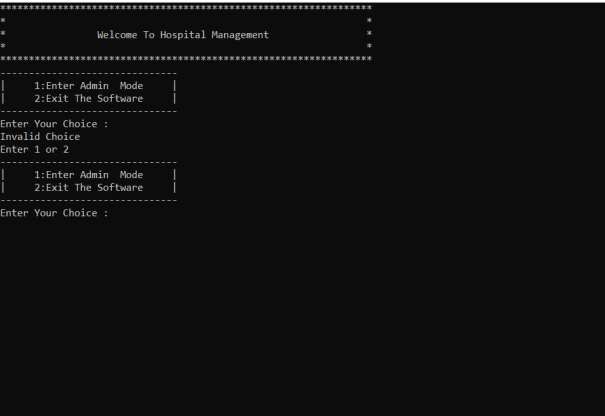
print("Invalid Choice") print("Enter 1 or 2")

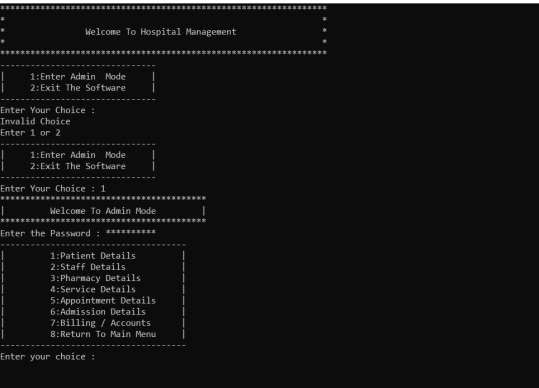
# Output

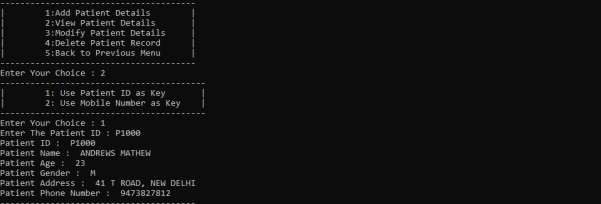
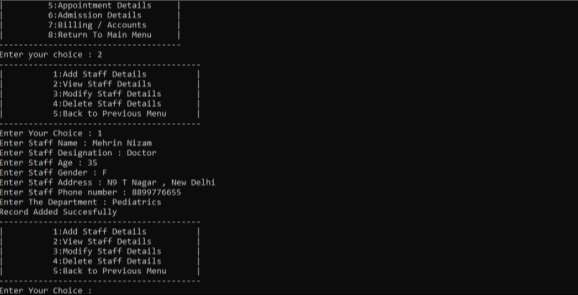
**#database creation**



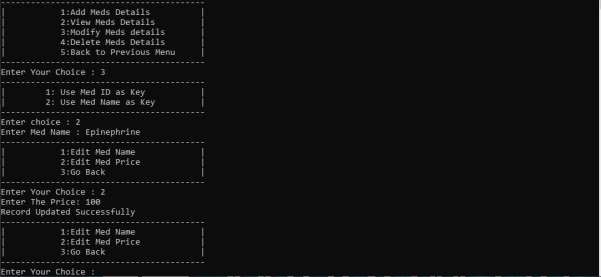
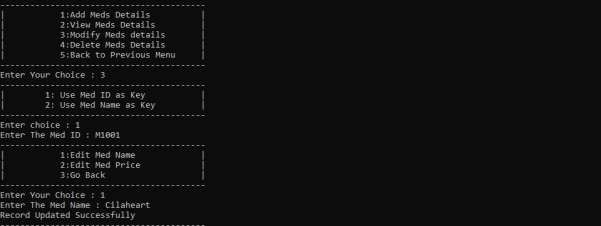
**#Hospital Management**

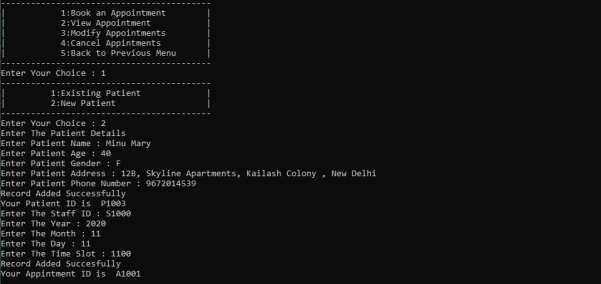
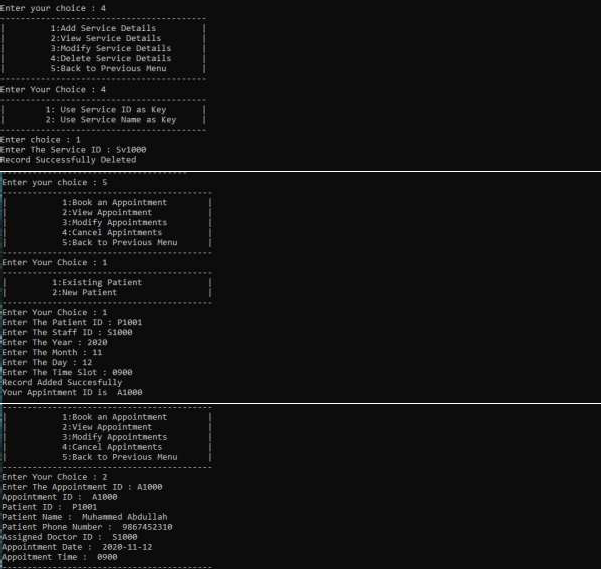


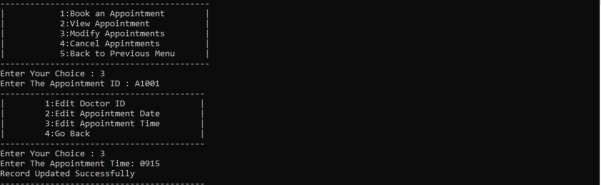




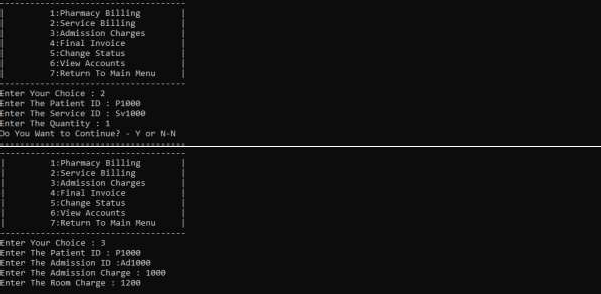
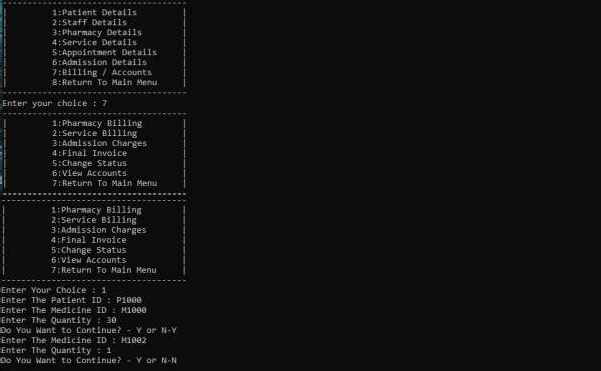
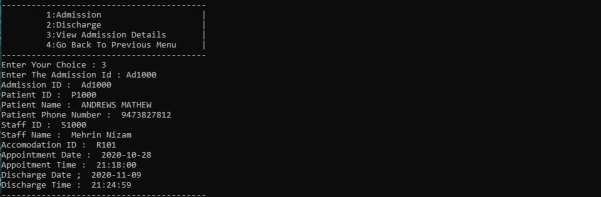


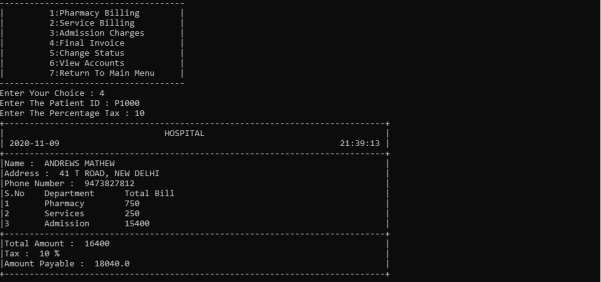


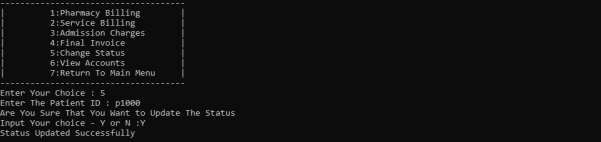




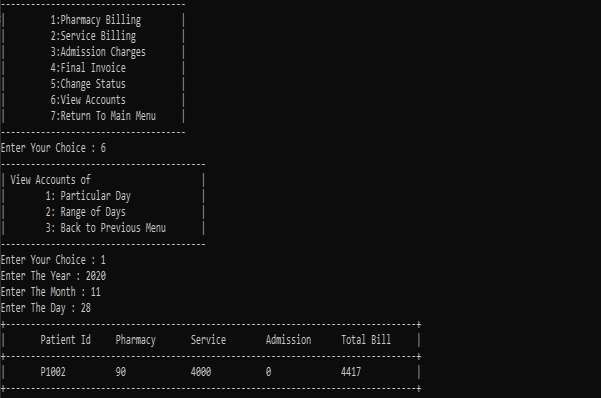


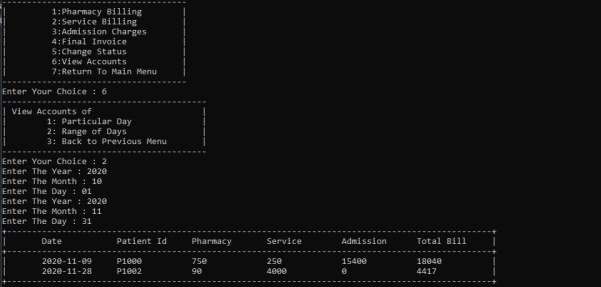


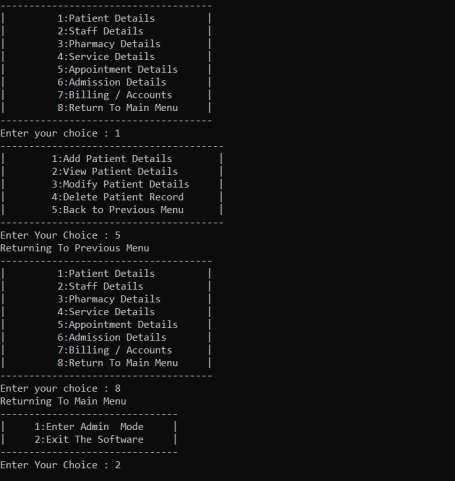












Conclusion

By this project, we were able to learn a lot about quiz creation programs and Python – Mysql inteface concepts. This project has helped us to get a deeper knowledge of the Python programming language. We believe that we have made use of our knowledge in python to make this project a success. This program was compiled and rectified of all errors. It was run and the desired output was obtained.

## Bibilography

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Thank you

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