

GURUKUL **MONTESSORI** **SCHOOL**



COMPUTER SCIENCE

[PROJECT FILE]

CLASS – XII

CODE NO. 083

SESSION – 2021-2022

SUBMITTED BY

AINDRI SINGH

CLASS-XII

ROLL NO-23709800

SUBMITTED TO

RAMEEZ AHMAD SIDDIQUI

COMPUTER SCIENCE

TEACHER

PROJECT

BASED ON :

HOSPITAL

MANAGEMENT

SYSTEM

CERTIFICATE

This is to certify that **AINDRI SINGH** is a certified student of class **XIIth** of **Gurukul Montessori School** affiliated by **CBSE** board and has successfully completed the project on **Hospital Management System** under the guidance of computer faculty by **Mr. Rameez Sir** .

**SIGNATURE OF
EXTERNAL
EXAMINAR**

**SIGNATURE OF
INTERNAL
EXAMINAR**

**SIGNATURE OF
PRINCIPAL**

ACKNOWLEDGEMENT

It is with pleasure that I acknowledge my sincere gratitude to our teacher, **Rameez Sir** who taught and undertook the responsibility of teaching the subject computer science. I have been greatly benefited from his classes.

My sincere thanks goes to our Principal **Servesh K Sharma** sir who has always been a source of encouragement and support and without whose inspiration, this project would not have been successful.

Finally, I would like to express my sincere appreciation and gratefulness towards my family members and friends for their support and guidance.

Last but not least, I would like to thank all who had helped directly or indirectly towards the completion of this project.

THANK YOU

Name of student-**Aindri Singh**

Class-**XII**

INTRODUCTION

The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy and labs. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the details of doctor and patient using the id.

The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.

The purpose of the project entitled as “HOSPITAL MANAGEMENT SYSTEM” is to computerize the Front Office Management of Hospital to develop software which is user friendly, simple, fast and cost-effective. It deals with the collection of patient’s information, diagnosis details, etc.

CONTENTS



Introduction of the Project.



System Requirements of the Project.



Python Coding.



Output of the Project.



References.

HARDWARE AND SOFTWARE USED....

SYSTEM:

- Microsoft windows 13

TEXT EDITOR:

- Microsoft office word

INTERPRETER:

- Python 3.10.0

PREREQUISITES BEFORE INSTALLING MYSQL CONNECTOR PYTHON:

- You need root or administrator privileges to perform the installation process.
- Python must be installed on your machine.
- Note:- MySQL Connector Python requires python to be in the system's PATH. Installation fails if it doesn't find Python.
- On Windows, If Python doesn't exist in the system's PATH, please manually add the directory containing python.exe yourself.

PYTHON CODING

```
import mysql.connector as con

username=input("ENTER MYSQL SERVER'S USERNAME:")

password=input("ENTER MYSQL SERVER'S PASSWORD:")

database=input("ENTER NAME OF DATABASE:")

connect=con.connect(host="localhost",user=username,passwd=password,database=database)

cursor=connect.cursor()

def AdminMenu():

    print("|-----|")

    print("| 1:Create table doctor_details          |")

    print("| 2:Describe doctor_details              |")

    print("| 3:Register doctor_details              |")

    print("| 4:Display all doctor_details           |")

    print("| 5:Create table patient_details         |")

    print("| 6:Describe patient_details             |")

    print("| 7:Register patient_details             |")

    print("| 8:Display all patient_details          |")

    print("| 9:Create table worker_details          |")

    print("| 10:Describe worker_details             |")

    print("| 11:Register worker_details             |")

    print("| 12:Display all worker_details          |")

    print("| 13:Search Doctor details              |")

    print("| 14:Search Patient details             |")

    print("| 15:Search Worker details              |")

    print("| 16:Update Doctor details              |")

    print("| 17:Update patient details             |")

    print("| 18:Update Worker details              |")
```



```

print("| 19:Create table bill                                |")
print("| 20:Enter charges of patient for Bill_details        |")
print("| 21:Show records of bill                                |")
print("| 22:Delete records                                      |")
print("| 23:Remove All Doctor                                    |")
print("| 24:Remove All Patient                                    |")
print("| 25:Remove All Workers                                    |")
print("| 26:Display details of a particular doctor              |")
print("| 27:Display details of a particular Patient             |")
print("| 28:Display details of a particular worker              |")
print("| 29:Exit                                                  |")
print("|-----|")

```

def UserMenu():

```

print("|-----|")
print("| 1:Display details of a particular Doctor              |")
print("| 2:Display details of a particular Patient             |")
print("| 3:Display details of a particular Worker              |")
print("| 4:Display all Doctor details                           |")
print("| 5:Display all Patient details                          |")
print("| 6:Display all Worker details                           |")
print("| 7:Search Doctors details                               |")
print("| 8:Search Patient details                               |")
print("| 9:Search Worker details                                |")
print("| 10:Exit                                                 |")
print("|-----|")

```

def Doctor_details(): **#To Create Doctor's Table**

```

    cursor.execute("CREATE TABLE IF NOT EXISTS doctor_details(d_id int primary
key,d_name varchar(30) NOT NULL,d_age int,d_gender varchar(10),d_department
varchar(20) NOT NULL,d_post varchar(30) NOT NULL,d_phone varchar(11) unique
key,d_date_of_joining date NOT NULL);")

```

```

    print(":::|||||:::Doctor's TABLE Created Successfully:::|||||:::")

```

def Patient_details(): **#To Create Patient's Table**

```
cursor.execute("CREATE TABLE IF NOT EXISTS patient_details(p_id int primary
key,p_name varchar(30) NOT NULL,p_age int,p_gender varchar(10),p_problems
varchar(20) NOT NULL,p_phone varchar(11) NOT NULL,p_date_of_admit date NOT
NULL);")
```

```
print("::::::|||:::Patient's TABLE Created Successfully::::|||:::")
```

def Worker_details(): **#To Create Worker's Table**

```
cursor.execute("CREATE TABLE IF NOT EXISTS worker_details(w_id int primary
key,w_name varchar(30) NOT NULL,w_age int,w_gender varchar(10),w_workname
varchar(20) NOT NULL,w_phone varchar(11) NOT NULL,w_date_of_joining date NOT
NULL);")
```

```
print("::::::|||:::Worker's TABLE Created Successfully::::|||:::")
```

def Add_doctor(): **#To Add New Doctor**

```
print("Enter New Doctor Information:")
```

```
i=int(input("Enter ID of Doctor:"))
```

```
n=input("Enter Doctor Name:")
```

```
a=int(input("Enter Age:"))
```

```
g=input("Enter Gender ( F or M):")
```

```
d=input("Enter the Department:")
```

```
p=input("Enter the post:")
```

```
ph=input("Enter Phone Number:")
```

```
da=input("Enter date of joining(YYYY-MM-DD):")
```

```
cursor.execute("insert into doctor_details
values({},{},{},{},{},{},{},{})".format(i,n,a,g,d,p,ph,da))
```

```
connect.commit()
```

```
connect.close()
```

```
print("::::::|||:::Registered New Doctor::::|||:::")
```

def Add_Patient(): **#To Add New Patient**

```
print("Enter New Patient Information:")
```

```
i=int(input("Enter ID of Patient:"))
```

```

n=input("Enter Patient Name:")
a=int(input("Enter Age:"))
g=input("Enter Gender ( F or M):")
p=input("Enter Problems:")
ph=input("Enter Phone Number:")
da=input("Enter the date on which patient was admitted to hospital(YYYY-MM-DD):")

cursor.execute("insert into patient_details
values(?,?,?,?,?,?,?,?)".format(i,n,a,g,p,ph,da))

connect.commit()

connect.close()

print("::::::|||:::Registered New Patient::::::|||:::")

def Add_worker(): #To Add New Worker
    print("Enter New Worker Information:")
    i=int(input("Enter ID of Worker: "))
    n=input("Enter Worker Name:")
    a=int(input("Enter Age:"))
    g=input("Enter Gender ( F or M):")
    w=input("Enter type of work:")
    ph=input("Enter Phone Number:")
    da=input("Enter date of joining(YYYY-MM-DD):")

    cursor.execute("insert into worker_details
values(?,?,?,?,?,?,?)".format(i,n,a,g,w,ph,da))

    connect.commit()

    connect.close()

    print("::::::|||:::Registered New Worker::::::|||:::")

def desc_doctor(): #To Describe Structure of Doctor Table
    print("Structure of doctor_details table")
    cursor.execute("desc doctor_details")

    for i in cursor:
        print(i)

    connect.close()

```

```
def desc_patient(): #To Describe Structure of Patient Table
```

```
    print("Structure of patient_details table")
```

```
    cursor.execute("desc patient_details")
```

```
    for i in cursor:
```

```
        print(i)
```

```
    connect.close()
```

```
def desc_worker(): #To Describe Structure of Worker Table
```

```
    print("Structure of worker_details table")
```

```
    cursor.execute("desc worker_details")
```

```
    for i in cursor:
```

```
        print(i)
```

```
    connect.close()
```

```
def DisplayAllDoctor(): #To Display All Doctors
```

```
    print("In which order you want to display the doctor_details:")
```

```
    x=int(input("1:Ascending order , 2:Descending order , 3:As present in table :"))
```

```
    if x==1:
```

```
        col=input("Enter column name with respect to which you want to order the records:")
```

```
        cursor.execute("select * from doctor_details order by { } asc".format(col))
```

```
        for a in cursor:
```

```
            for j in a:
```

```
                print(j,end=',')
```

```
            print()
```

```
        connect.close()
```

```
    elif x==2:
```

```
        col=input("Enter column name with respect to which you want to order the records:")
```

```
        cursor.execute("select * from doctor_details order by { } desc".format(col))
```

```
        for a in cursor:
```

```
            for j in a:
```

```

        print(j,end=',')
    print()
    connect.close()
else:
    cursor.execute("select * from doctor_details")
    for a in cursor:
        for j in a:
            print(j,end=',')
        print()
    connect.close()

```

def DisplayAllPatient(): #To Display All Patient

```

    print("In which order you want to display the patient_details:")
    x=int(input("1:Ascending order , 2:Descending order ,3:As present in table :"))
    if x==1:
        col=input("Enter column name with respect to which you want to order the records:")
        cursor.execute("select * from patient_details order by { } asc".format(col))
        for a in cursor:
            for j in a:
                print(j,end=',')
            print()
        connect.close()
    elif x==2:
        col=input("Enter column name with respect to which you want to order the records:")
        cursor.execute("select * from patient_details order by { } desc".format(col))
        for a in cursor:
            for j in a:
                print(j,end=',')
            print()
        connect.close()

```

```
else:
    cursor.execute("select * from patient_details")
    for a in cursor:
        for j in a:
            print(j,end=',')
        print()
    connect.close()
```

def DisplayAllWorker(): **#To Display All Workers**

```
print("In which order you want to display the worker_details:")
x=int(input("1:Ascending order , 2:Descending order , 3:As present in table:"))
if x==1:
    col=input("Enter column name with respect to which you want to order the records:")
    cursor.execute("select * from worker_details order by { } asc".format(col))
    for a in cursor:
        for j in a:
            print(j,end=',')
        print()
    connect.close()
elif x==2:
    col=input("Enter column name with respect to which you want to order the records:")
    cursor.execute("select * from worker_details order by { } desc".format(col))
    for a in cursor:
        for j in a:
            print(j,end=',')
        print()
    connect.close()
else:
    cursor.execute("select * from worker_details")
    for a in cursor:
```

```
        for j in a:
            print(j,end=',')
        print()
    connect.close()
```

```
def SearchDoctor(): #To Search Doctor
```

```
    d=int(input("Enter the ID of Doctor to be searched:"))
    cursor.execute("select * from doctor_details where d_id={ }".format(d))
    x=cursor.fetchone()
    if x==None:
        print("No such Records of Doctor is found !!")
    else:
        for i in x:
            print(i,end=",")
        print()
    connect.close()
```

```
def SearchPatient(): #To Search Patient
```

```
    d=int(input("Enter the ID of Patient to be searched:"))
    cursor.execute("select * from patient_details where p_id={ }".format(d))
    x=cursor.fetchone()
    if x==None:
        print("No such Patient found !!")
    else:
        for i in x:
            print(i,end=",")
        print()
    connect.close()
```

```
def SearchWorker(): #To Search Worker
```

```
    d=int(input("Enter the ID of Worker to be searched:"))
```

```
    cursor.execute("select * from worker_details where w_id={ }".format(d))
```

```
    x=cursor.fetchone()
```

```
    if x==None:
```

```
        print("No such Worker found !!")
```

```
    else:
```

```
        for i in x:
```

```
            print(i,end=",")
```

```
        print()
```

```
    connect.close()
```

```
def update_doctor(): #To Update Doctor Details
```

```
    d=int(input("Enter the Doctor's ID to be modified:"))
```

```
    a=input("1:To change the age , 2:To change the Department , 3:To change the post , 4:To  
change the phone number , 5: To change All the details :")
```

```
    if a=='1':
```

```
        x=int(input("Enter the new age:"))
```

```
        cursor.execute("update doctor_details set d_age={ } where d_id={ }".format(x,d))
```

```
        print("::::::|||:::Details updated successfully::::::|||:::")
```

```
    elif a=='2':
```

```
        x=input("Enter the new Department:")
```

```
        cursor.execute("update doctor_details set d_name='{ }' where d_id={ }".format(x,d))
```

```
        print("::::::|||:::Details updated successfully::::::|||:::")
```

```
    elif a=='3':
```

```
        x=input("Enter the new Post:")
```

```
        cursor.execute("update doctor_details set d_post='{ }' where d_id={ }".format(x,d))
```

```
        print("::::::|||:::Details updated successfully::::::|||:::")
```

```
    elif a=='4':
```

```
        x=input("Enter the new phone Number:")
```

```
        cursor.execute("update doctor_details set d_phone='{ }' where d_id={ }".format(x,d))
```



```

        print("::::::|||:::Details updated successfully::::::|||:::")
    elif a=='5':
        ag=int(input("Enter the age :"))
        p=input("Enter the new Department:")
        po=input("Enter the new post:")
        n=input("Enter the new phone number:")
        cursor.execute("update doctor_details set
d_age={ },d_name='{ }',d_post='{ }',d_phone='{ }' where d_id={ }".format(ag,p,po,n,d))
        print("::::::|||:::Details updated successfully::::::|||:::")
    else:
        print("Invalid Option!!")
        return
connect.commit()
connect.close()
print("“::::::|||:::Detail’s Updated Successfully::::::|||:::”")

```

def update_worker(): **#To Update Worker Details**

```

    d=int(input("Enter the Worker's ID to be modified:"))

    a=input("1:To change the age , 2:To change the work name ,3:To change the phone
number , 4: To change All the details :")

    if a=='1':
        x=int(input("Enter the new age:"))
        cursor.execute("update worker_details set w_age={ } where w_id={ }".format(x,d))
    elif a=='2':
        x=input("Enter the new Work name:")
        cursor.execute("update worker_details set w_name='{ }' where w_id={ }".format(x,d))
    elif a=='3':
        x=input("Enter the new Phone Number:")
        cursor.execute("update worker_details set w_phone='{ }' where w_id={ }".format(x,d))
    elif a=='4':
        ag=int(input("Enter the age :"))

```

```

w=input("Enter the new Work name:")
n=input("Enter the new phone number:")
cursor.execute("update worker_details set w_age={ },w_workname='{ }',w_phone='{ }'
where w_id={ }".format(ag,w,n,d))
else:
    print("Invalid Option!!")
    return
connect.commit()
connect.close()
print("::::::|||::::::Details updated successfully::::::|||::::::")

```

def update_patient(): **#To Update Patient Details**

```

d=int(input("Enter the Patient's ID to be modified:"))
a=input("1:To change the age , 2:To change patient's problem , 3:To change the phone
number , 4: To change All the details :")
if a=='1':
    x=int(input("Enter the new age:"))
    cursor.execute("update patient_details set p_age={ } where p_id={ }".format(x,d))
elif a=='2':
    x=input("Enter the patient's problem:")
    cursor.execute("update patient_details set p_name='{ }'where p_id={ }".format(x,d))
elif a=='3':
    x=input("Enter the new phone Number:")
    cursor.execute("update patient_details set p_phone='{ }' where p_id={ }".format(x,d))
elif a=='4':
    ag=int(input("Enter the age :"))
    p=input("Enter the patient's Problem:")
    n=input("Enter the new phone number:")
    cursor.execute("update patient_details set p_age={ },p_problems='{ }',p_phone='{ }'
where p_id={ }".format(ag,p,n,d))
else:

```

```
    print("Invalid Option!!")

    return

connect.commit()

connect.close()

print("::::::|||:::Details updated successfully::::::|||:::")
```

def Bill_details(): #To Create Bill

```
    cursor.execute("create table bill(p_id int primary key,p_name varchar(25),p_age int,drvisit
varchar(40),medicines varchar(15),room int(15));")

    print("::::::|||:::Table Created::::::|||:::")
```

def AddBill(): #To Add Bill

```
    print("Enter Charges of patient in the bill")
    i=int(input("Enter ID of patient:"))
    n=input("Enter patient Name:")
    a=int(input("Enter patient age:"))
    d=int(input("Enter fee of Dr's visites:"))
    m=int(input("Enter the cost of medicines"))
    r=int(input("Enter Room charges:"))

    cursor.execute("insert into bill values({}, '{}', {}, {}, {}, {})".format(i,n,a,d,m,r))

    connect.commit()

    connect.close()

    print("Data inserted successfully")
```

def ShowBill(): #To Show Bill

```
    print("All Records of Bill")
    cursor.execute("Select * from bill")

    for i in cursor:

        for j in i:

            print(j,end=",")

        print()

    connect.close()
```

```
def delete_records(): #To Delete Records
```

```
    a=int(input("1:Delete Doctor's Records , 2:Delete patient's Record , 3:Delete Worker's  
Recordd , 4:Delete Bill Record:"))
```

```
    if a==1:
```

```
        x=input("Enter the ID of doctor which you want to Remove:")
```

```
        cursor.execute("delete from doctor_details where d_id={ }".format(x))
```

```
        connect.commit()
```

```
        connect.close()
```

```
        print("::::::|||::: Record of Doctor removed successfully::::::|||:::")
```

```
    elif a==2:
```

```
        x=input("Enter the ID of Patient which you want to Remove:")
```

```
        cursor.execute("delete from patient_details where p_id={ }".format(x))
```

```
        connect.commit()
```

```
        connect.close()
```

```
        print("::::::|||:::Record of Patient removed successfully::::::|||:::")
```

```
    elif a==3:
```

```
        x=input("Enter the ID of worker which you want to Remove:")
```

```
        cursor.execute("delete from worker_details where w_id={ }".format(x))
```

```
        connect.commit()
```

```
        connect.close()
```

```
        print("::::::|||:::Record of Woker removed successfully::::::|||:::")
```

```
    elif a==4:
```

```
        x=input("Enter the ID of patient whose bill you want to Remove:")
```

```
        cursor.execute("delete from bill where p_id={ }".format(x))
```

```
        connect.commit()
```

```
        connect.close()
```

```
        print("::::::|||:::Record removed successfully::::::|||:::")
```

```
    else:
```

```
        print("Wrong choice.Enter choice correctly")
```

```
def RemoveAllDoctors(): #To Remove All Doctors
```

```
    cursor.execute("delete from doctor_details")
```

```
    connect.commit()
```

```
    connect.close()
```

```
    print("All Doctors details removed successfully")
```

```
def RemoveAllPatients(): #To Remove All Patients
```

```
    cursor.execute("delete from patient_details")
```

```
    connect.commit()
```

```
    connect.close()
```

```
    print("All Patients details removed successfully")
```

```
def RemoveAllWorkers(): #To Remove All Workers
```

```
    cursor.execute("delete from worker_details")
```

```
    connect.commit()
```

```
    connect.close()
```

```
    print("All Workers details removed successfully")
```

```
#Main Program Begins
```

```
print("\n\n\t|||****WELCOME TO HOSPITAL DATABASE MANAGEMENT  
SYSTEM****|||\n\n")
```

```
ch=int(input("Press 1: To login as ADMIN\n Press 2:To login as USER\n\n"))
```

```
if ch==1:
```

```
    a=input("Enter Admin Password:")
```

```
    if a=="Hospital@123":
```

```
        print("\n\n\t| WELCOME ADMIN: Here is the Menu|\n\n")
```

```
        while True:
```

```
            print("\n")
```

```
            AdminMenu()
```

```
            print("\n")
```

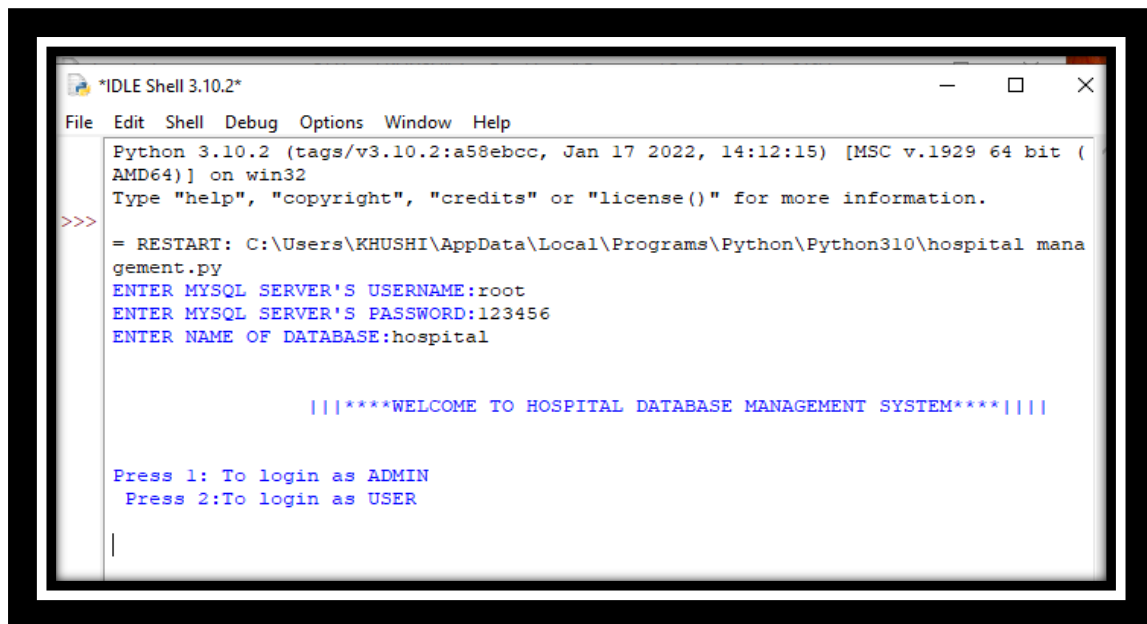
```
            n=int(input("Enter Your Choice:"))
```

```
if n==1:
    Doctor_details()
elif n==2:
    desc_doctor()
elif n==3:
    Add_doctor()
elif n==4:
    DisplayAllDoctor()
elif n==5:
    Patient_details()
elif n==6:
    desc_patient()
elif n==7:
    Add_Patient()
elif n==8:
    DisplayAllPatient()
elif n==9:
    Worker_details()
elif n==10:
    desc_worker()
elif n==11:
    Add_worker()
elif n==12:
    DisplayAllWorker()
elif n==13 or n==26:
    SearchDoctor()
elif n==14 or n==27:
    SearchPatient()
elif n==15 or n==28:
    SearchWorker()
```

```
elif n==16:
    update_doctor()
elif n==17:
    update_patient()
elif n==18:
    update_worker()
elif n==19:
    Bill_details()
elif n==20:
    AddBill()
elif n==21:
    ShowBill()
elif n==22:
    delete_records()
elif n==23:
    RemoveAllDoctors()
elif n==24:
    RemoveAllPatients()
elif n==25:
    RemoveAllWorkers()
elif n==29:
    break
else:
    print("WRONG CHOICE")
else:
    print("Invalid password !! LOGIN UNSUCCESSFUL")
elif ch==2:
    nm=input("Enter Username:")
    print("\n\n\t\t WELCOME ",nm,":HERE IS THE MENU \n\n")
    while True:
```

```
print("\n")
UserMenu()
print("\n")
n=int(input("Enter your choice:"))
if n==1 or n==7:
    SearchDoctor()
elif n==2 or n==8:
    SearchPatient()
elif n==3 or n==9:
    SearchWorker()
elif n==4:
    DisplayAllDoctor()
elif n==5:
    DisplayAllPatient()
elif n==6:
    DisplayAllWorker()
elif n==10:
    break
else:
    print("WRONG CHOICE")
else:
    print("Invalid Choice!!")
```

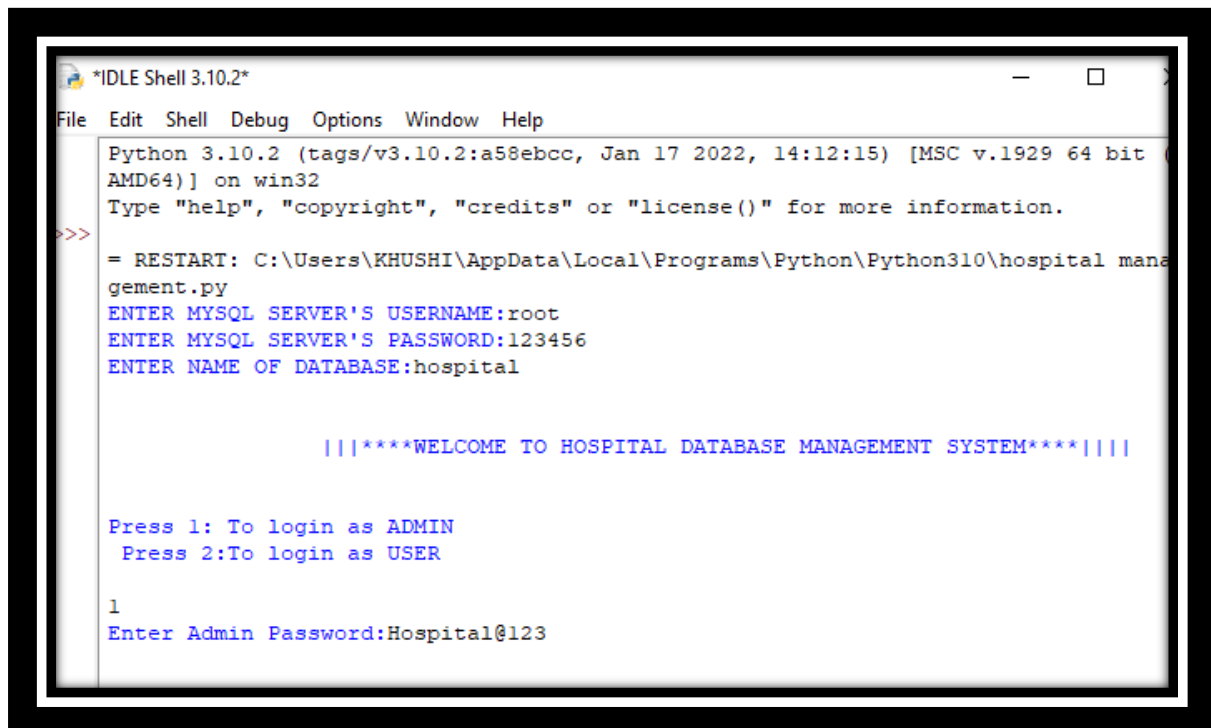

OUTPUT



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\KHUSHI\AppData\Local\Programs\Python\Python310\hospital management.py
ENTER MYSQL SERVER'S USERNAME:root
ENTER MYSQL SERVER'S PASSWORD:123456
ENTER NAME OF DATABASE:hospital

      |||****WELCOME TO HOSPITAL DATABASE MANAGEMENT SYSTEM****|||

Press 1: To login as ADMIN
Press 2:To login as USER
|
```



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
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= RESTART: C:\Users\KHUSHI\AppData\Local\Programs\Python\Python310\hospital management.py
ENTER MYSQL SERVER'S USERNAME:root
ENTER MYSQL SERVER'S PASSWORD:123456
ENTER NAME OF DATABASE:hospital

      |||****WELCOME TO HOSPITAL DATABASE MANAGEMENT SYSTEM****|||

Press 1: To login as ADMIN
Press 2:To login as USER

1
Enter Admin Password:Hospital@123
```

ADMIN MENU

IDLE Shell 3.10.2

File Edit Shell Debug Options Window Help

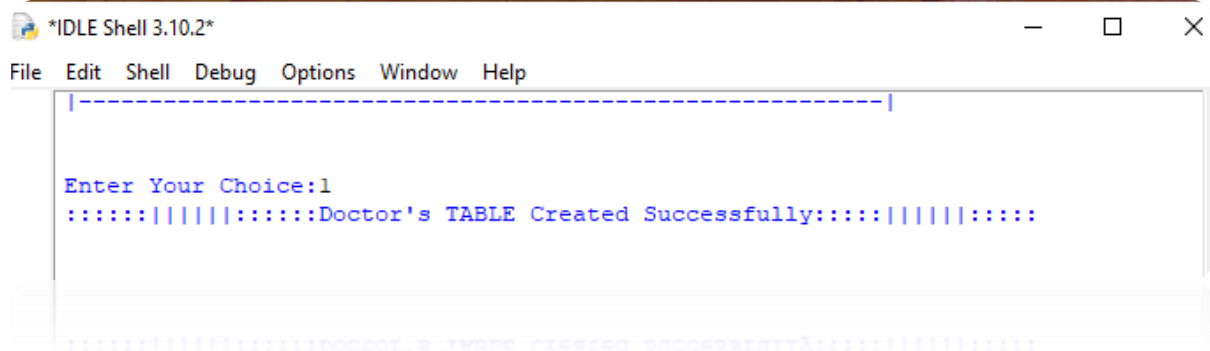
| WELCOME ADMIN: Here is the Menu|

```
|-----|
| 1:Create table doctor_details|
| 2:Describe doctor_details|
| 3:Register doctor_details|
| 4:Display all doctor_details|
| 5:Create table patient_details|
| 6:Describe patient_details|
| 7:Register patient_details|
| 8:Display all patient_details|
| 9:Create table worker_details|
| 10:Describe worker_details|
| 11:Register worker_details|
| 12:Display all worker_details|
| 13:Search Doctor details|
| 14:Search Patient details|
| 15:Search Worker details|
| 16:Update Doctor details|
| 17:Update patient details|
| 18:Update Worker details|
| 19:Create table bill|
| 20:Enter charges of pateient for Biil_details|
| 21:show records of bill|
| 22>Delete records|
| 23:Remove All Doctor|
| 24:Remove All Patient|
| 25:Remove All Workers|
| 26:Display details of a particular doctor|
| 27:Display details of a particular Patient|
| 28:Display details of a particular worker|
| 29:Exit|
|-----|
```

Enter Your Choice:

Ln: 58 Col: 1

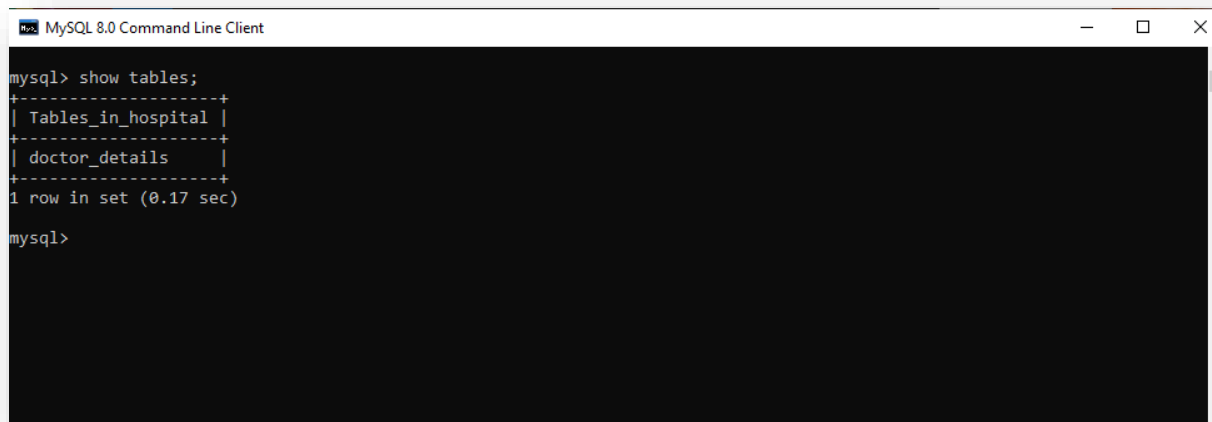
TO CREATE DOCTOR'S TABLE



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

-----

Enter Your Choice:1
::::::::::Doctor's TABLE Created Successfully::::::::::
```

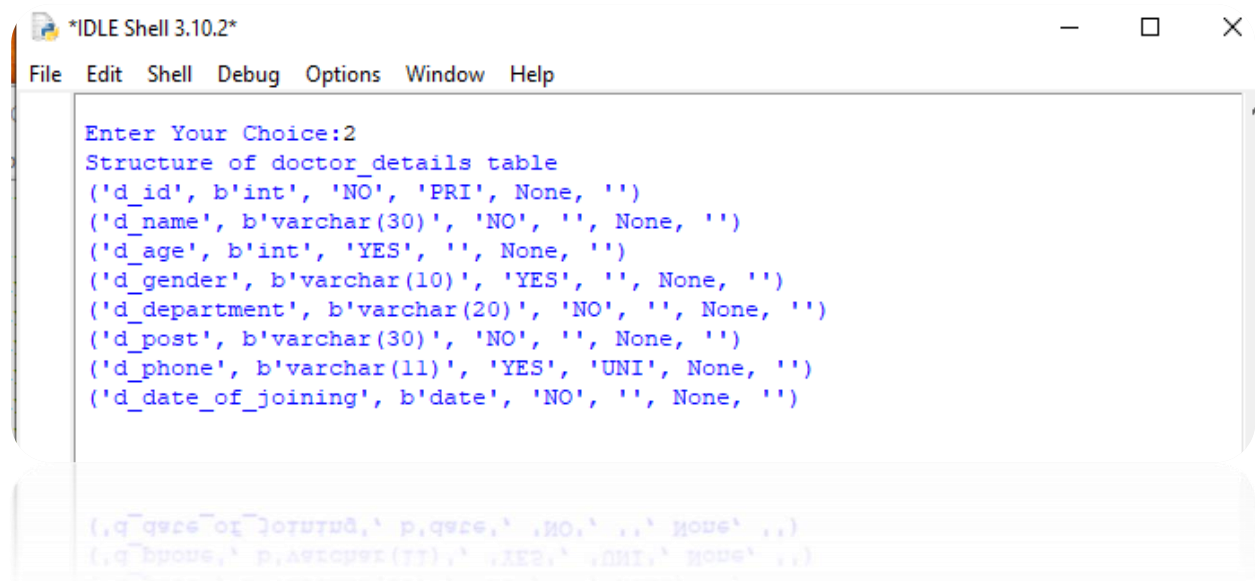


```
MySQL 8.0 Command Line Client

mysql> show tables;
+-----+
| Tables_in_hospital |
+-----+
| doctor_details      |
+-----+
1 row in set (0.17 sec)

mysql>
```

TO DESCRIBE DOCTOR TABLE



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:2
Structure of doctor_details table
('d_id', b'int', 'NO', 'PRI', None, '')
('d_name', b'varchar(30)', 'NO', '', None, '')
('d_age', b'int', 'YES', '', None, '')
('d_gender', b'varchar(10)', 'YES', '', None, '')
('d_department', b'varchar(20)', 'NO', '', None, '')
('d_post', b'varchar(30)', 'NO', '', None, '')
('d_phone', b'varchar(11)', 'YES', 'UNI', None, '')
('d_date_of_joining', b'date', 'NO', '', None, '')
```

TO ADD NEW DOCTOR

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:3
Enter New Doctor Information:
Enter ID of Doctor:101
Enter Doctor Name:Dr. Manoj Kumar
Enter Age:32
Enter Gender ( F or M ):M
Enter the Department:Neurologists
Enter the post:Junior Doctor
Enter Phone Number:9865324509
Enter date of joining(YYYY-MM-DD):2019-03-17
:::|||||:::Registered New Doctor:::|||||:::
```

```
MySQL 8.0 Command Line Client
mysql> select * from doctor_details;
+-----+-----+-----+-----+-----+-----+-----+-----+
| d_id | d_name      | d_age | d_gender | d_department | d_post      | d_phone      | d_date_of_joining |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101  | Dr.Manoj Kumar | 32    | M        | Neurologists | Junior Doctor | 9865324509   | 2019-03-17        |
| 102  | Dr.Ajay Mishra | 42    | M        | Psychologist | Senior Doctor | 9876543210   | 2022-02-22        |
| 103  | Dr.Vijay Shukla | 29    | M        | Cardiologist | Junior Doctor | 8724138950   | 2022-01-18        |
| 104  | Dr.Atul Kumar  | 57    | M        | Cardiologist | Senior Doctor | 8734298710   | 2009-08-03        |
| 105  | Dr.Somya Singh | 34    | F        | Gynocologist | Senior Doctor | 8965231095   | 2015-12-09        |
| 106  | Dr.Shipra Mishra | 52    | F        | Neurologist  | Senior Doctor | 9854297606   | 2004-05-13        |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.04 sec)

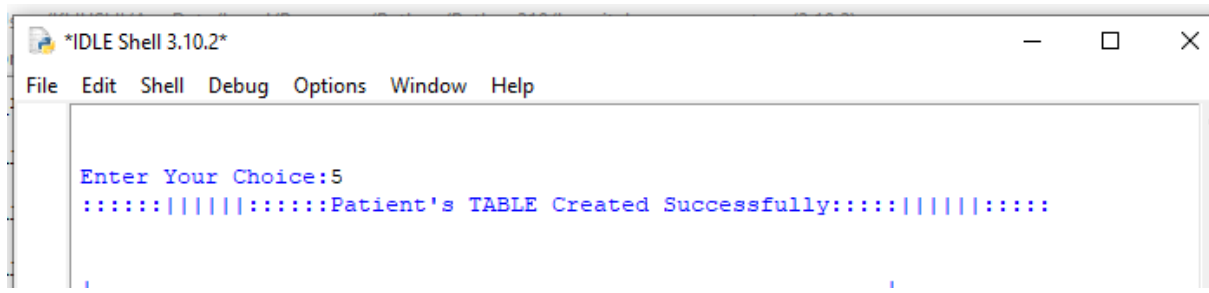
mysql>
```

TO DISPLAY ALL DOCTOR DETAILS

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

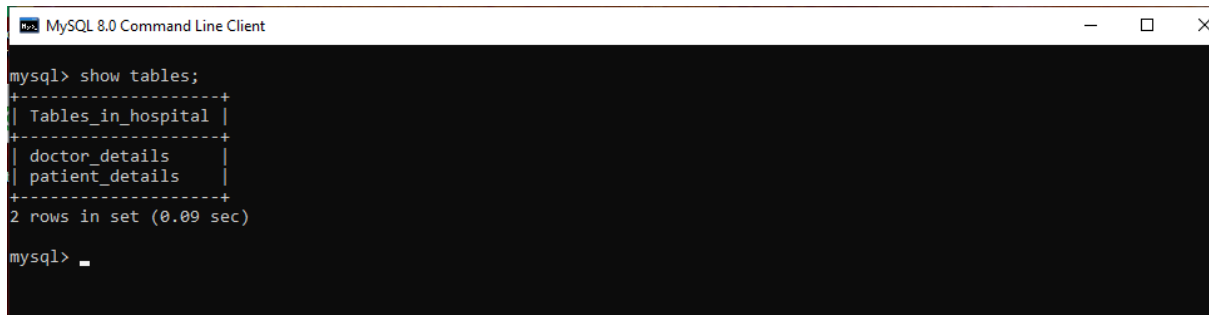
Enter Your Choice:4
In which order you want to display the doctor_details:
1:Ascending order , 2:Descending order , 3:As present in table :1
Enter column name with respect to which you want to order the records:d_name
102,Dr.Ajay Mishra,42,M,Psychologist,Senior Doctor,9876543210,2022-02-22,
104,Dr.Atul Kumar,57,M,Cardiologist,Senior Doctor,8734298710,2009-08-03,
101,Dr.Manoj Kumar,32,M,Neurologists,Junior Doctor,9865324509,2019-03-17,
106,Dr.Shipra Mishra,52,F,Neurologist,Senior Doctor,9854297606,2004-05-13,
105,Dr.Somya Singh,34,F,Gynocologist,Senior Doctor,8965231095,2015-12-09,
103,Dr.Vijay Shukla,29,M,Cardiologist,Junior Doctor,8724138950,2022-01-18,
```

TO CREATE PATIENT'S TABLE



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:5
::::::::::::::::::Patient's TABLE Created Successfully::::::::::::::::::
```

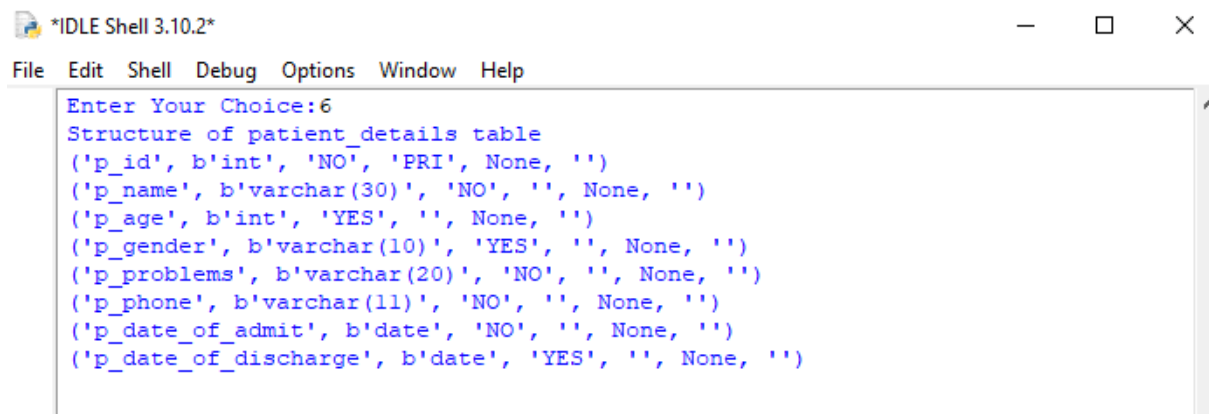


```
MySQL 8.0 Command Line Client

mysql> show tables;
+-----+
| Tables_in_hospital |
+-----+
| doctor_details      |
| patient_details     |
+-----+
2 rows in set (0.09 sec)

mysql> _
```

TO DESCRIBE PATIENT TABLE



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:6
Structure of patient_details table
('p_id', b'int', 'NO', 'PRI', None, '')
('p_name', b'varchar(30)', 'NO', '', None, '')
('p_age', b'int', 'YES', '', None, '')
('p_gender', b'varchar(10)', 'YES', '', None, '')
('p_problems', b'varchar(20)', 'NO', '', None, '')
('p_phone', b'varchar(11)', 'NO', '', None, '')
('p_date_of_admit', b'date', 'NO', '', None, '')
('p_date_of_discharge', b'date', 'YES', '', None, '')
```

TO ADD NEW PATIENT

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:7
Enter New Patient Information:
Enter ID of Patient:1001
Enter Patient Name:Saroj Kumar
Enter Age:65
Enter Gender ( F or M):M
Enter Problems:Knee Problem
Enter Phone Number:9842350876
Enter the date on which patient was admitted to hospital(YYYY-MM-DD):2021-12-08
::::|:::::Registered New Patient::::|:::::

```

```
MySQL 8.0 Command Line Client
mysql> select * from patient_details;
+-----+-----+-----+-----+-----+-----+-----+
| p_id | p_name | p_age | p_gender | p_problems | p_phone | p_date_of_admit |
+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Saroj Kumar | 65 | M | Knee Problem | 9842350876 | 2021-12-08 |
| 1002 | Ajay Tripathi | 36 | M | Heart Problem | 9540861270 | 2022-02-15 |
| 1003 | Vijay Tripathi | 22 | M | Eye Problem | 9572386120 | 2022-01-25 |
| 1004 | Anamika Patel | 29 | F | Hair Problem | 9576593210 | 2022-03-07 |
| 1005 | Anshul Patel | 70 | F | Heart Problem | 9576559933 | 2020-11-07 |
| 1006 | Anshul Tiwari | 17 | M | Liver Problem | 9570329933 | 2019-08-06 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>

```

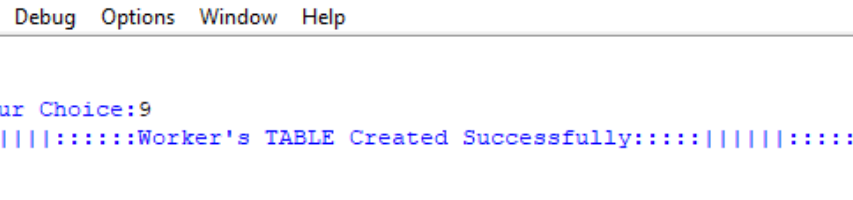
TO DISPLAY ALL PATIENT DETAILS

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:8
In which order you want to display the patient_details:
1:Ascending order , 2:Descending order ,3:As present in table :2
Enter column name with respect to which you want to order the records:p_name
1003,Vijay Tripathi,22,M,Eye Problem,9572386120,2022-01-25,
1001,Saroj Kumar,65,M,Knee Problem,9842350876,2021-12-08,
1006,Anshul Tiwari,17,M,Liver Problem,9570329933,2019-08-06,
1005,Anshul Patel,70,F,Heart Problem,9576559933,2020-11-07,
1004,Anamika Patel,29,F,Hair Problem,9576593210,2022-03-07,
1002,Ajay Tripathi,36,M,Heart Problem,9540861270,2022-02-15,

```

TO CREATE WORKER'S TABLE




The screenshot displays two terminal windows. The top window, titled '*IDLE Shell 3.10.2*', shows a Python script execution. The prompt 'Enter Your Choice:' is followed by the input '9'. The output of the script is 'Worker's TABLE Created Successfully:'. The bottom window, titled 'MySQL 8.0 Command Line Client', shows the command 'show tables;' being executed. The output lists the tables in the database: 'Tables_in_hospital', 'doctor_details', 'patient_details', and 'worker_details'. The output is formatted as a table with a header row and a body row, separated by dashed lines.

```
Enter Your Choice:9
:::Worker's TABLE Created Successfully:::
```

```
mysql> show tables;
+-----+
Tables_in_hospital |
+-----+
doctor_details     |
patient_details    |
worker_details     |
+-----+
3 rows in set (0.08 sec)

mysql>
```

TO DESCRIBE WORKER TABLE



The screenshot shows an IDLE Shell window with the following content:

```
Enter Your Choice:10
Structure of worker_details table
('w_id', b'int', 'NO', 'PRI', None, '')
('w_name', b'varchar(30)', 'NO', '', None, '')
('w_age', b'int', 'YES', '', None, '')
('w_gender', b'varchar(10)', 'YES', '', None, '')
('w_workname', b'varchar(20)', 'NO', '', None, '')
('w_phone', b'varchar(11)', 'NO', '', None, '')
('w_date_of_joining', b'date', 'NO', '', None, '')
```

TO ADD NEW WORKER

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:11
Enter New Worker Information:
Enter ID of Worker: 01
Enter Worker Name:Savita Devi
Enter Age:46
Enter Gender ( F or M):F
Enter type of work:Cleaner
Enter Phone Number:8654209864
Enter date of joining(YYYY-MM-DD):2007-02-09
::::|:::::Registered New Worker::::|:::::

```

```
MySQL 8.0 Command Line Client
mysql> select * from worker_details;
+----+-----+-----+-----+-----+-----+-----+
| w_id | w_name | w_age | w_gender | w_workname | w_phone | w_date_of_joining |
+----+-----+-----+-----+-----+-----+-----+
| 1 | Savita Devi | 46 | F | Cleaner | 8654209864 | 2007-02-09 |
| 2 | Kamal Kumar | 55 | M | Cleaner | 9570329933 | 2005-08-06 |
| 3 | Kamala Kumari | 25 | F | Nurse | 9570373650 | 2015-05-01 |
| 4 | Shweta Kumari | 28 | F | Nurse | 9570007650 | 2015-05-13 |
| 5 | Shyam Sundar | 35 | M | Ward Boy | 8973307655 | 2020-12-23 |
| 6 | Arundhati Kaur | 28 | F | Receptionist | 8973894855 | 2022-02-23 |
+----+-----+-----+-----+-----+-----+-----+
rows in set (0.00 sec)

mysql> _

```

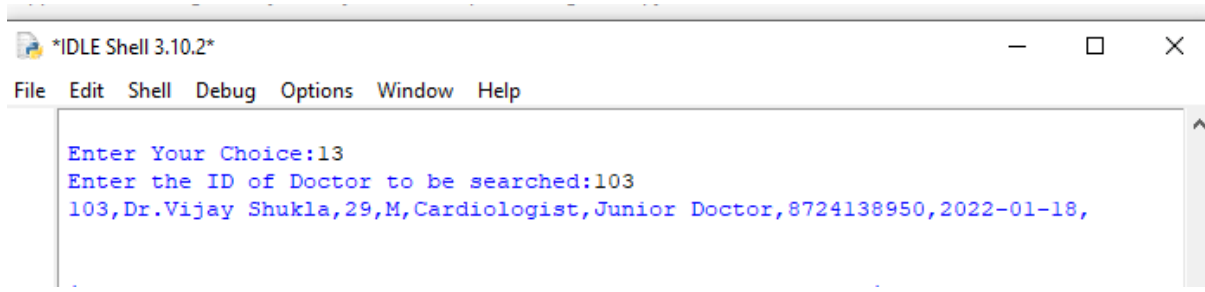
TO DISPLAY ALL WORKER'S DETAILS

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:12
In which order you want to display the worker_details:
1:Ascending order , 2:Descending order , 3:As present in table:3
1,Savita Devi,46,F,Cleaner,8654209864,2007-02-09,
2,Kamal Kumar,55,M,Cleaner,9570329933,2005-08-06,
3,Kamala Kumari,25,F,Nurse,9570373650,2015-05-01,
4,Shweta Kumari,28,F,Nurse,9570007650,2015-05-13,
5,Shyam Sundar,35,M,Ward Boy,8973307655,2020-12-23,
6,Arundhati Kaur,28,F,Receptionist,8973894855,2022-02-23,

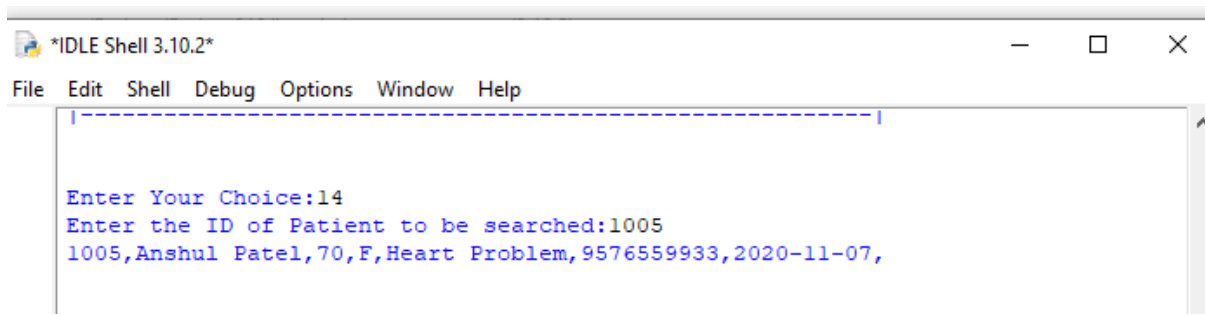
```


SEARCH DOCTOR'S DETAIL



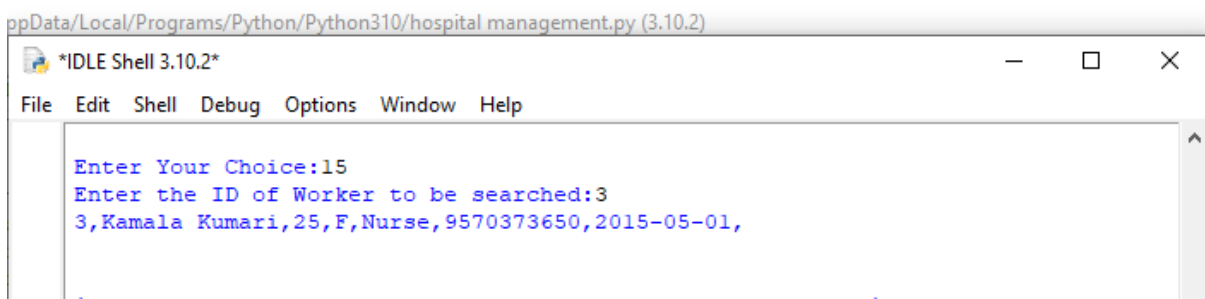
```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
Enter Your Choice:13
Enter the ID of Doctor to be searched:103
103,Dr.Vijay Shukla,29,M,Cardiologist,Junior Doctor,8724138950,2022-01-18,
```

SEARCH PATIENT'S DETAIL



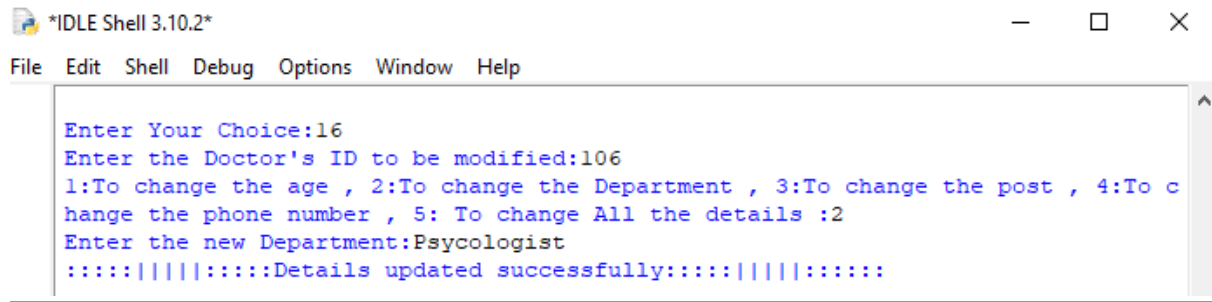
```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
Enter Your Choice:14
Enter the ID of Patient to be searched:1005
1005,Anshul Patel,70,F,Heart Problem,9576559933,2020-11-07,
```

SEARCH WORKER'S DETAIL



```
ppData/Local/Programs/Python/Python310/hospital management.py (3.10.2)
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
Enter Your Choice:15
Enter the ID of Worker to be searched:3
3,Kamala Kumari,25,F,Nurse,9570373650,2015-05-01,
```

UPDATE DOCTOR'S DETAIL

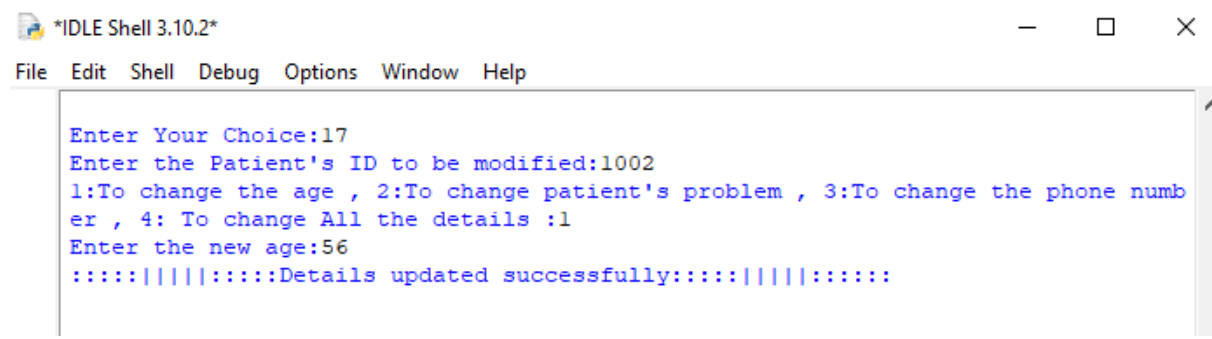


```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:16
Enter the Doctor's ID to be modified:106
1:To change the age , 2:To change the Department , 3:To change the post , 4:To c
hange the phone number , 5: To change All the details :2
Enter the new Department:Psychologist
::::|||:::Details updated successfully::::|||:::

```

UPDATE PATIENT'S DETAIL

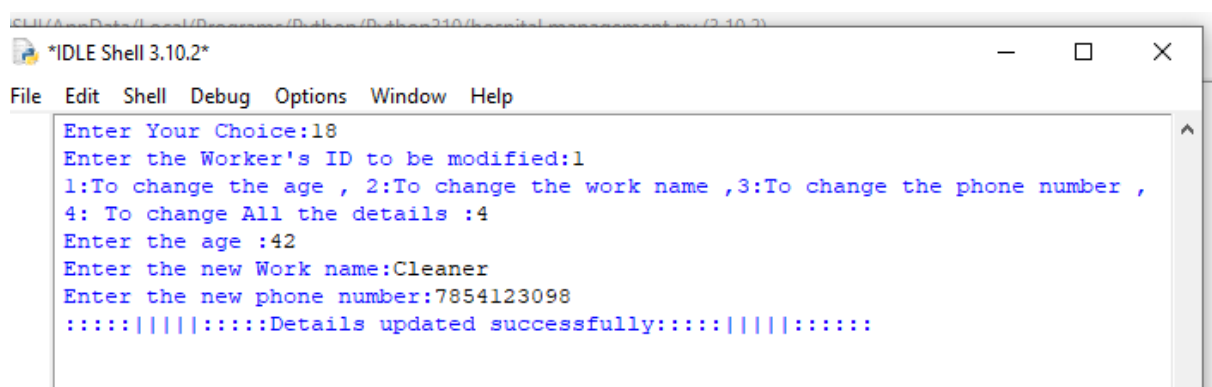


```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:17
Enter the Patient's ID to be modified:1002
1:To change the age , 2:To change patient's problem , 3:To change the phone numb
er , 4: To change All the details :1
Enter the new age:56
::::|||:::Details updated successfully::::|||:::

```

UPDATE WORKER'S DETAIL



```
C:\Users\user\AppData\Local\Programs\Python\Python310\Scripts\python.exe (3.10.2)
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:18
Enter the Worker's ID to be modified:1
1:To change the age , 2:To change the work name ,3:To change the phone number ,
4: To change All the details :4
Enter the age :42
Enter the new Work name:Cleaner
Enter the new phone number:7854123098
::::|||:::Details updated successfully::::|||:::

```

TO CREATE BILL TABLE

IDLE Shell 3.10.2

File Edit Shell Debug Options Window Help

```
Enter Your Choice:19
::::|||:::Table Created::::|||:::
|-----|
```

MySQL 8.0 Command Line Client

```
mysql> show tables;
+-----+
| Tables_in_hospital |
+-----+
| bill                |
| doctor_details     |
| patient_details     |
| worker_details     |
+-----+
4 rows in set (0.28 sec)

mysql>
```

TO ADD NEW BILL

IDLE Shell 3.10.2

File Edit Shell Debug Options Window Help

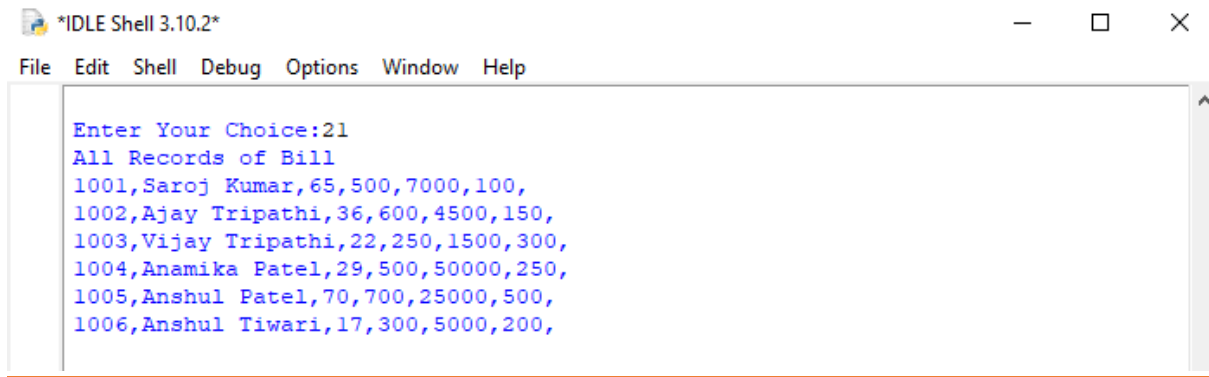
```
Enter Your Choice:20
Enter Charges of patient in the bill
Enter ID of patient:1001
Enter patient Name:Saroj Kumar
Enter patient age:65
Enter fee of Dr's visites:500
Enter the cost of medicines7000
Enter Room charges:100
Data inserted successfully
```

MySQL 8.0 Command Line Client

```
mysql> select * from bill;
+-----+-----+-----+-----+-----+-----+
| p_id | p_name      | p_age | drvisit | medicines | room |
+-----+-----+-----+-----+-----+-----+
| 1001 | Saroj Kumar | 65    | 500     | 7000      | 100  |
| 1002 | Ajay Tripathi | 36    | 600     | 4500      | 150  |
| 1003 | Vijay Tripathi | 22    | 250     | 1500      | 300  |
| 1004 | Anamika Patel | 29    | 500     | 50000     | 250  |
| 1005 | Anshul Patel | 70    | 700     | 25000     | 500  |
| 1006 | Anshul Tiwari | 17    | 300     | 5000      | 200  |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.03 sec)

mysql>
```

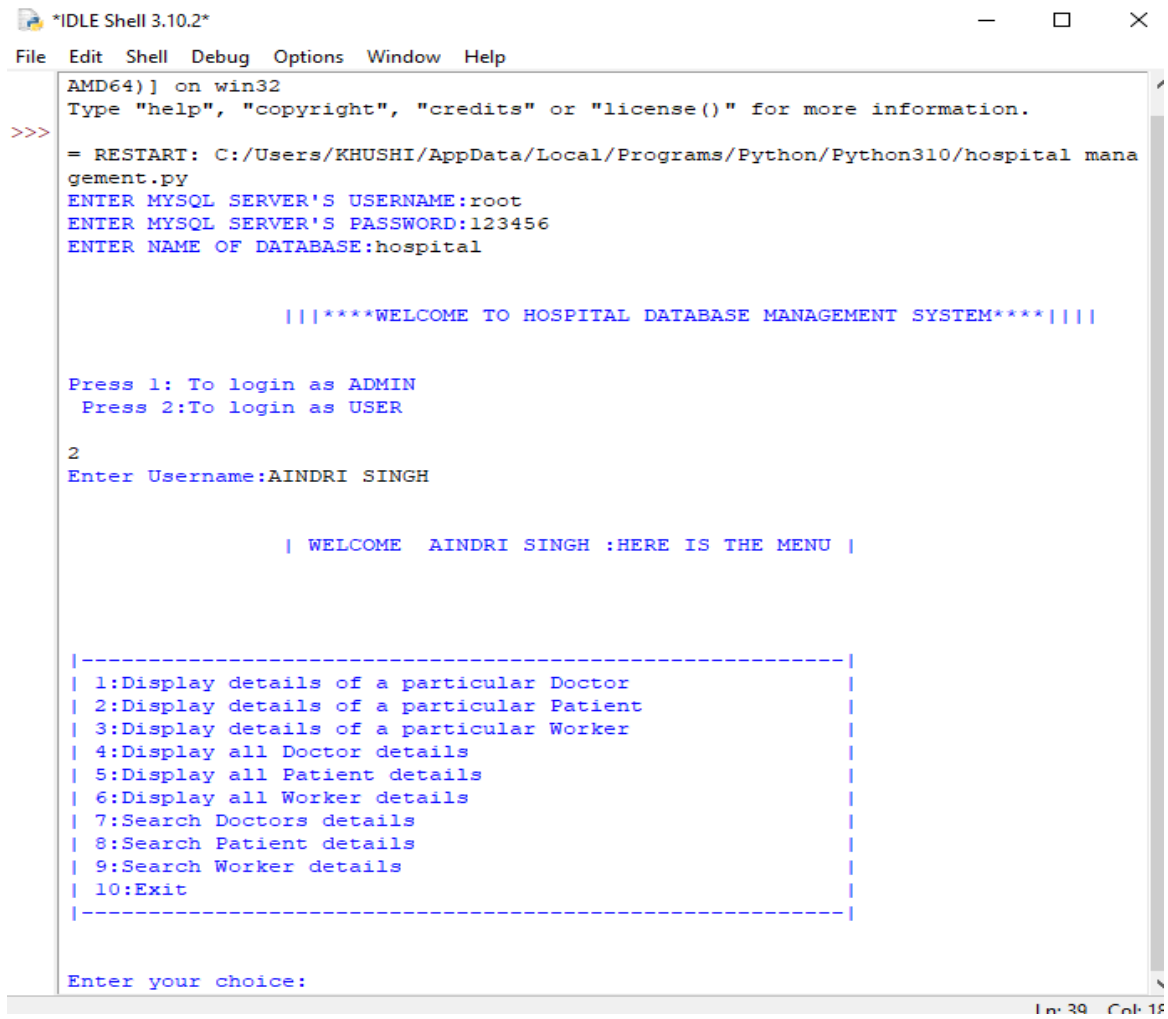
TO DISPLAY ALL BILL RECORDS



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

Enter Your Choice:21
All Records of Bill
1001,Saroj Kumar,65,500,7000,100,
1002,Ajay Tripathi,36,600,4500,150,
1003,Vijay Tripathi,22,250,1500,300,
1004,Anamika Patel,29,500,50000,250,
1005,Anshul Patel,70,700,25000,500,
1006,Anshul Tiwari,17,300,5000,200,
```

USER MENU



```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help

AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/KHUSHI/AppData/Local/Programs/Python/Python310/hospital management.py
ENTER MYSQL SERVER'S USERNAME:root
ENTER MYSQL SERVER'S PASSWORD:123456
ENTER NAME OF DATABASE:hospital

      |||****WELCOME TO HOSPITAL DATABASE MANAGEMENT SYSTEM****|||

Press 1: To login as ADMIN
Press 2:To login as USER

2
Enter Username:AINDRI SINGH

      | WELCOME AINDRI SINGH :HERE IS THE MENU |

|-----|
| 1:Display details of a particular Doctor |
| 2:Display details of a particular Patient |
| 3:Display details of a particular Worker |
| 4:Display all Doctor details |
| 5:Display all Patient details |
| 6:Display all Worker details |
| 7:Search Doctors details |
| 8:Search Patient details |
| 9:Search Worker details |
| 10:Exit |
|-----|

Enter your choice:
```

REFERENCES

1. python.org
2. Code Academy
3. tutorialspoint.com
4. [PythonChallenge.com](https://pythonchallenge.com)
5. Google's Python Class
6. [LearnPython.org](https://learnpython.org)
7. layak.in

