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**SYSTEM REQUIRED FOR PROJECT**

RECOMMENDED SYSTEM REQUIREMENT:

* Processor: Intel\*CoreTMi5 processor 4300M at 2.60GHz
* Disk space: 2 to 4 GB
* Operating systems: Windows10
* Python version: 3.7.9 or higher

MINIMUM SYSTEM REQUIREMENT:

* Processor: intel atom processor or Intel\*CoreTM i3 processor
* Disk space: 1GB
* Operating systems: Windows7 or 10
* Python version: 3.5

**INTRODUCTION**

**Sometimes, data truly is a matter of life and death.**

Covid-19 Management software is basically a database-based project done with help of Python language. This project is very useful for the management of the COVID CASES. This software storesinformation of patients,doctors, staffs,bills and quarantine period.

**OBJECTIVE**

The main objective of the python project on “COVID-19 Management System” is to manage the details of the Patients, Doctors, bills and rooms.

This software will be able to create, edit, display, update and delete the details.

Any Hospital can adopt this system during Pandemic for the benefit

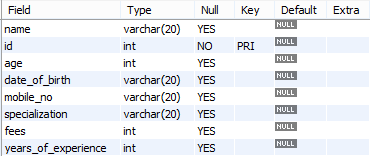
**Flowchart**

**Backend Details**

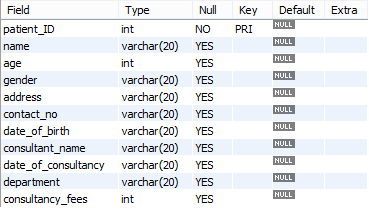
Database name: Practise

**Tables**:

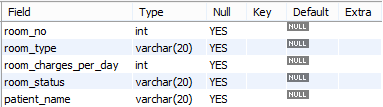
1. Doctors



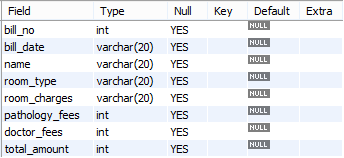
2.Patients



3.Room-info



4.Bill-details



**SOURCE CODE**

**import** **sys**

**import** **mysql.connector** **as** **sq**

**def** connection():

**try**:

con=sq.connect(host="localhost",user="root",password="dudelakshay17",database="practise")

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

**print**("database not connected")

**else**:

**return** con

**except** sq.Error **as** er:

**print**(er)

**def** insertion():

**try**:

con=connection()

cur=con.cursor()

name=input("enter name of doctor :")

id=int(input("enter id of doctor :"))

age=int(input("enter age of doctor :"))

date\_of\_birth=input("enter date of birth of doctor[DDMMYYYY]:")

mobile\_no=input("enter mobile no of doctor :")

specialization=input("enter specialization of doctor :")

fees=int(input("enter fees of doctor :"))

years\_of\_experience=int(input("enter years of experience :"))

cur.execute("insert into doctors(name,id,age,date\_of\_birth,mobile\_no,specialization,fees,years\_of\_experience)values('**%s**',**%d**,**%d**,'**%s**','**%s**','**%s**',**%d**,**%d**)"%(name,id,age,date\_of\_birth,mobile\_no,specialization,fees,years\_of\_experience))

**print**()

**print**("data inserted successfully")

con.commit()

**except** sq.Error **as** er:

**print**(er)

**def** display():

**try**:

con=connection()

cur=con.cursor()

cur.execute("select \* from doctors")

**for** i **in** cur.fetchall():

**print**(i)

**except** sq.Error **as** er:

**print**(er)

**def** updation():

**try**:

con=connection()

cur=con.cursor()

name=input("Enter name of doctor :")

id=int(input("Enter id of doctor :"))

age=int(input("Enter age of doctor :"))

date\_of\_birth=input("Enter date of birth of doctor :")

mobile\_no=input("Enter mobile no of doctor :")

specialization=input("Enter specialization of doctor :")

fees=int(input("Enter fees of doctor :"))

years\_of\_experience=int(input("Enter years of experience :"))

cur.execute("update doctors set name='**%s**',age=**%d**, date\_of\_birth='**%s**', mobile\_no='**%s**', specialization='**%s**', fees=**%d**,years\_of\_experience=**%d** where id= **%d**"%(name,age,date\_of\_birth,mobile\_no,specialization,fees,years\_of\_experience,id))

**print**()

con.commit()

**print**("Data updated successfully")

**except** sq.Error **as** er:

**print**(er)

**def** deletion():

**try**:

con=connection()

cur=con.cursor()

id=int(input("Enter id of doctor whose record you want to delete **\n**Enter id :"))

cur.execute("Delete from doctors where id= **%d**"%(id))

**print**()

con.commit()

**print**("Data Deleted successfully :")

**except** sq.Error **as** er:

**print**(er)

**def** insertion1():

**try**:

con=connection()

cur=con.cursor()

patient\_ID=int(input("Enter id of patient :"))

name=input("Enter name of patient :")

age=int(input("Enter age of patient :"))

gender=input("Enter gender of patient :")

address=input("Enter address of patient :")

contact\_no=input("Enter contact no of patient :")

date\_of\_birth=input("Enter date of birth of patient :")

consultant\_name=input("Consultant's name :")

date\_of\_consultancy=input("Enter date of consultancy of patient :")

department=input("Enter department of patient :")

consultancy\_fees=int(input("Enter consultancy fees of patient :"))

cur.execute("insert into patients( patient\_ID,name,age,gender,address,contact\_no,date\_of\_birth,consultant\_name,date\_of\_consultancy,department,consultancy\_fees)values(**%d**,'**%s**',**%d**,'**%s**','**%s**','**%s**','**%s**','**%s**','**%s**','**%s**',**%d**)"%( patient\_ID,name,age,gender,address,contact\_no,date\_of\_birth,consultant\_name,date\_of\_consultancy,department,consultancy\_fees))

**print**()

**print**("Data inserted successfully")

con.commit()

**except** sq.Error **as** er:

**print**(er)

**def** display1():

**try**:

con=connection()

cur=con.cursor()

cur.execute("select \* from patients")

**for** i **in** cur.fetchall():

**print**(i)

**except** sq.Error **as** er:

**print**(er)

**def** updation1():

**try**:

con=connection()

cur=con.cursor()

patient\_ID=int(input("Enter id of patient :"))

name=input("Enter name of patient :")

age=int(input("Enter age of patient :"))

gender=input("Enter gender of patient :")

address=input("Enter address of patient :")

contact\_no=input("Enter contact no of patient :")

date\_of\_birth=input("Enter date of birth of patient :")

consultant\_name=input("Enter consultant name of patient :")

date\_of\_consultancy=input("Enter date of consultancy of patient :")

department=input("Enter department of patients :")

consultancy\_fees=int(input("Enter consultancy fees of patient :"))

cur.execute("update patients set name='**%s**',age=**%d** ,gender='**%s**',address='**%s**',contact\_no='**%s**',date\_of\_birth='**%s**',consultant\_name='**%s**',date\_of\_consultancy='**%s**',department='**%s**',consultancy\_fees=**%d** where patient\_ID= **%d**"%(name,age,gender,address,contact\_no,date\_of\_birth,consultant\_name,date\_of\_consultancy,department,consultancy\_fees,patient\_ID))

**print**()

con.commit()

**print**("Data updated successfully")

**except** sq.Error **as** er:

**print**(er)

**def** deletion1():

**try**:

con=connection()

cur=con.cursor()

patient\_ID=int(input("Enter id of patient whose record you want to delete **\n**Enter id :"))

cur.execute("Delete from patients where patient\_ID= **%d**"%(patient\_ID))

**print**()

con.commit()

**print**("Data Deleted successfully")

**except** sq.Error **as** er:

**print**(er)

**def** insertion2():

**try**:

con=connection()

cur=con.cursor()

room\_no=int(input("Enter room no :"))

room\_type=input("Enter room type :")

room\_charges\_per\_day=int(input("Enter room charges per day :"))

room\_status=input("Enter room status :")

patient\_name=input("Enter patient name :")

cur.execute("insert into room\_info(room\_no, room\_type, room\_charges\_per\_day, room\_status, patient\_name )values(**%d**,'**%s**',**%d**,'**%s**','**%s**')"%(room\_no, room\_type, room\_charges\_per\_day, room\_status, patient\_name ))

**print**()

**print**("Data inserted successfully")

con.commit()

**except** sq.Error **as** er:

**print**(er)

**def** display2():

**try**:

con=connection()

cur=con.cursor()

cur.execute("select \* from room\_info")

**for** i **in** cur.fetchall():

**print**(i)

**except** sq.Error **as** er:

**print**(er)

**def** updation2():

**try**:

con=connection()

cur=con.cursor()

room\_no=int(input("Enter room no :"))

room\_type=input("Enter room type :")

room\_charges\_per\_day=int(input("Enter room charges per day :"))

room\_status=input("Enter room status :")

patient\_name=input("Enter patient name of occupied room :")

cur.execute("update Room\_Info set room\_type='**%s**',room\_charges\_per\_day=**%d**,room\_status='**%s**',patient\_name='**%s**'where room\_no= **%d**"%(room\_type, room\_charges\_per\_day, room\_status, patient\_name, room\_no))

**print**()

con.commit()

**print**("data updated successfully")

**except** sq.Error **as** er:

**print**(er)

**def** deletion2():

**try**:

con=connection()

cur=con.cursor()

room\_no=int(input("Enter room no from Room\_Info whose record you want to delete **\n**Enter room no :"))

cur.execute("Delete from Room\_Info where room\_no= **%d**"%(room\_no))

**print**()

con.commit()

**print**("Data Deleted successfully")

**except** sq.Error **as** er:

**print**(er)

**def** insertion3():

**try**:

con=connection()

cur=con.cursor()

bill\_no=int(input("Enter bill no :"))

bill\_date=input("Enter bill date :")

name=input("Enter billing name :")

room\_type=input("Enter room type :")

room\_charges=int(input("Enter room charges :"))

pathology\_fees=int(input("Enter pathology fees :"))

doctor\_fees=int(input("Enter doctor fees :"))

total\_amount=int(input("Enter total amount of bill :"))

cur.execute("Insert into bill\_details( bill\_no, bill\_date, name ,room\_type, room\_charges, pathology\_fees, doctor\_fees, total\_amount )values(**%d**,'**%s**','**%s**','**%s**',**%d**,**%d**,**%d**,**%d**)"%( bill\_no, bill\_date, name, room\_type, room\_charges, pathology\_fees, doctor\_fees, total\_amount ))

**print**()

**print**("Data inserted successfully")

con.commit()

**except** sq.Error **as** er:

**print**(er)

**def** display3():

**try**:

con=connection()

cur=con.cursor()

cur.execute("select \* from bill\_details")

**for** i **in** cur.fetchall():

**print**(i)

**except** sq.Error **as** er:

**print**(er)

**def** updation3():

**try**:

con=connection()

cur=con.cursor()

bill\_no=int(input("Enter bill no :"))

bill\_date=input("Enter bill date :")

name=input("Enter name :")

room\_type=input("Enter room type :")

room\_charges=int(input("Enter room charges :"))

pathology\_fees=int(input("Enter pathology fees :"))

doctor\_fees=int(input("Enter doctor fees :"))

total\_amount=int(input("Enter total amount of bill :"))

cur.execute("update bill\_details set bill\_date='**%s**', name='**%s**', room\_type='**%s**', room\_charges=**%d**, pathology\_fees=**%d**, doctor\_fees=**%d**, total\_amount=**%d** where bill\_no= **%d**"%(bill\_date, name, room\_type, room\_charges, pathology\_fees, doctor\_fees, total\_amount,bill\_no))

**print**()

con.commit()

**print**("Data updated successfully")

**except** sq.Error **as** er:

**print**(er)

**def** deletion3():

**try**:

con=connection()

cur=con.cursor()

bill\_no=int(input("Enter bill no from bil\_ details whose record you want to delete **\n**Enter bill no :"))

cur.execute("delete from bill\_details where bill\_no= **%d**"%(bill\_no))

**print**()

con.commit()

**print**("Data Deleted successfully")

**except** sq.Error **as** er:

**print**(er)

**def** menu():

xy=1

**print**("""----------WELCOME TO HOSPITAL MANAGEMENT SYSTEM----------""")

**while** True:

**print**()

**print**()

**print**(""" ---------Main Menu---------

1. Doctor Records

2. Patient Records

3. Room Records

4. Billing Details

5. Exit""")

choice=int(input("Enter your choice from above categories :"))

**if** choice==1:

**print**()

**print**()

**print**("1.Add Record Of Doctors**\n**2.Update Record Of Existing Doctors**\n**3.Delete Record Of Doctors**\n**4.Access All The Doctor Records**\n**5.Exit to Main Menu")

a=input("Enter Your Choice :")

**if** a=='1':

insertion()

**print**()

**print**("Do You Want To Insert More Records?**\n**Type Yes To Insert More Records And No To Stop")

a=input("Enter Your Choice :")

**if** a=='Yes'**or** a=="yes" **or** a=="YES":

insertion()

**else**:

**print**("Okay")

**elif** a=='2':

display()

**print**()

updation()

**print**()

**print**("Do You Want To Update More Records?**\n**Type Yes To Update More Records And No To Stop")

b=input("Enter Your Choice :")

**if** b=='Yes'**or** b=="yes" **or** b=="YES":

updation()

**else**:

**print**("Okay")

**elif** a=='3':

display()

**print**()

deletion()

**print**()

**print**("Do You Want To Delete More Records")

c=input("Enter Your Choice :")

**if** c=='Yes'**or** c=="yes" **or** c=="YES":

deletion()

**else**:

**print**("okay")

**elif** a=='4':

display()

**elif** a=='5':

**print**('Exiting to Main Menu')

**print**('...')

**continue**

**else**:

**print**('Please enter a valid input')

**elif** choice==2:

**print**()

**print**()

**print**("1.Add Record Of patients**\n**2.Update Record Of Existing patients**\n**3.Delete Records Of patients**\n**4.Access All Patient Records**\n**5.Exit to Main Menu")

a=input("Enter Your Choice :")

**if** a=='1':

insertion1()

**print**()

**print**("Do You Want To Insert More Records?**\n**Type Yes To Insert More Records And No To Stop")

d=input("Enter Your Choice :")

**if** d=='Yes'**or** d=="yes" **or** d=="YES":

insertion1()

**else**:

**print**("Okay")

**elif** a=='2':

display1()

**print**()

updation1()

**print**()

**print**("Do You Want To Update More Records?**\n**Type Yes To Update More Records And No To Stop")

e=input("Enter Your Choice :")

**if** e=='Yes'**or** e=="yes" **or** e=="YES":

updation1()

**else**:

**print**("Okay")

**elif** a=='3':

display1()

**print**()

deletion1()

**print**()

**print**("Do You Want To Delete More Records")

f=input("Enter Your Choice :")

**if** f=='Yes'**or** f=="yes" **or** f=="YES":

deletion1()

**else**:

**print**("okay")

**elif** a=='4':

display1()

**elif** a=='5':

**print**('Exiting to Main Menu')

**print**('...')

**continue**

**else**:

**print**('Please enter a valid input')

**elif** choice==3:

**print**()

**print**()

**print**("1.Add Record Of Rooms **\n**2.Update Existing Room Records**\n**3.Delete Room Records**\n**4.Access All Room Records**\n**5.Exit to Main Menu")

a=input("Enter Your Choice :")

**if** a=='1':

insertion2()

**print**()

**print**("Do You Want To Insert More Records?**\n**Type Yes To Insert More Records And No To Stop")

g=input("Enter Your Choice :")

**if** g=='Yes'**or** g=="yes" **or** g=="YES":

insertion2()

**else**:

**print**("Okay")

**elif** a=='2':

display2()

**print**()

updation2()

**print**()

**print**("Do You Want To Update More Records?**\n**Type Yes To Update More Records And No To Stop")

h=input("Enter Your Choice :")

**if** h=='Yes'**or** h=="yes" **or** h=="YES":

updation2()

**else**:

**print**("Okay")

**elif** a=='3':

display2()

**print**()

deletion2()

**print**()

**print**("Do You Want To Delete More Records?")

i=input("Enter Your Choice :")

**if** i=='Yes'**or** i=="yes" **or** i=="YES":

deletion2()

**else**:

**print**("okay")

**elif** a=='4':

display2()

**elif** a=='5':

**print**('Exiting to Main Menu')

**print**('...')

**continue**

**else**:

**print**('Please enter a valid input')

**elif** choice==4:

**try**:

**print**()

**print**()

**print**("1.Add Records Of bill details**\n**2.Update Record Of Existing bill details**\n**3.Delete Record Of bill detais**\n**4.Access All The Records Of bill details**\n**5.Exit to Main Menu")

a=input("Enter Your Choice :")

**if** a=='1':

insertion3()

**print**()

**print**("Do You Want To Insert More Records?**\n**Type Yes To Insert More Records And No To Stop")

j=input("Enter Your Choice :")

**if** j=='Yes'**or** j=="yes" **or** j=="YES":

insertion3()

**else**:

**print**("Okay")

**elif** a=='2':

display3()

**print**()

updation3()

**print**()

**print**("Do You Want To Update More Records?**\n**Type Yes To Update More Records And No To Stop")

k=input("Enter Your Choice :")

**if** k=='Yes'**or** k=="yes" **or** k=="YES":

updation3()

**else**:

**print**("Okay")

**elif** a=='3':

display3()

**print**()

deletion3()

**print**()

**print**("Do You Want To Delete More Records")

l=input("Enter Your Choice :")

**if** l=='Yes'**or** l=="yes" **or** l=="YES":

deletion3()

**else**:

**print**("okay")

**elif** a=='4':

display3()

**elif** a=='5':

**print**('Exiting to Main Menu')

**print**('...')

**continue**

**else**:

**print**('Please enter a valid input')

**except** sq.Error **as** er:

**print**(er)

**elif** choice==5:

**print**("")

**print**("EXITING...")

**print**("----------Thank you for using our HOSPITAL MANAGEMENT SYSTEM ! ---------- ")

**break**

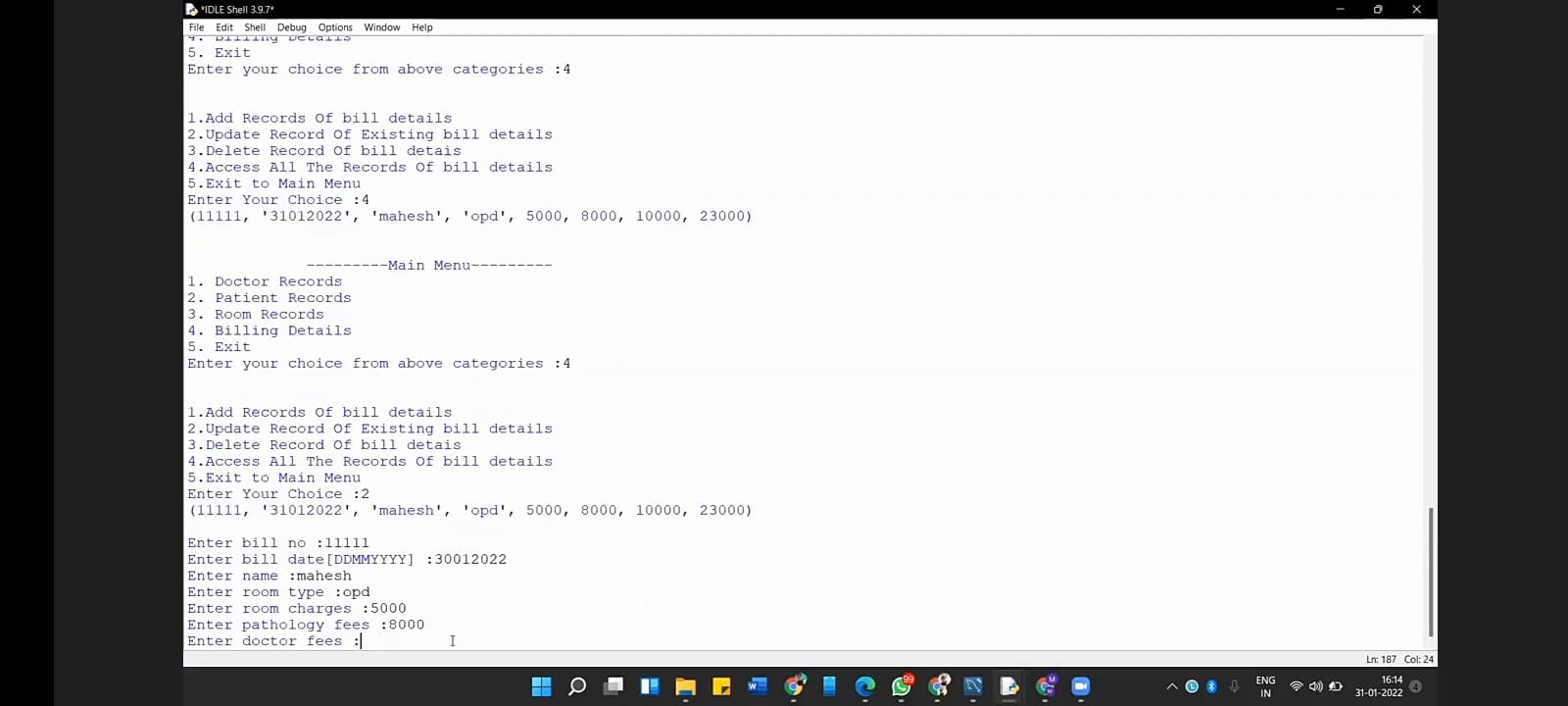
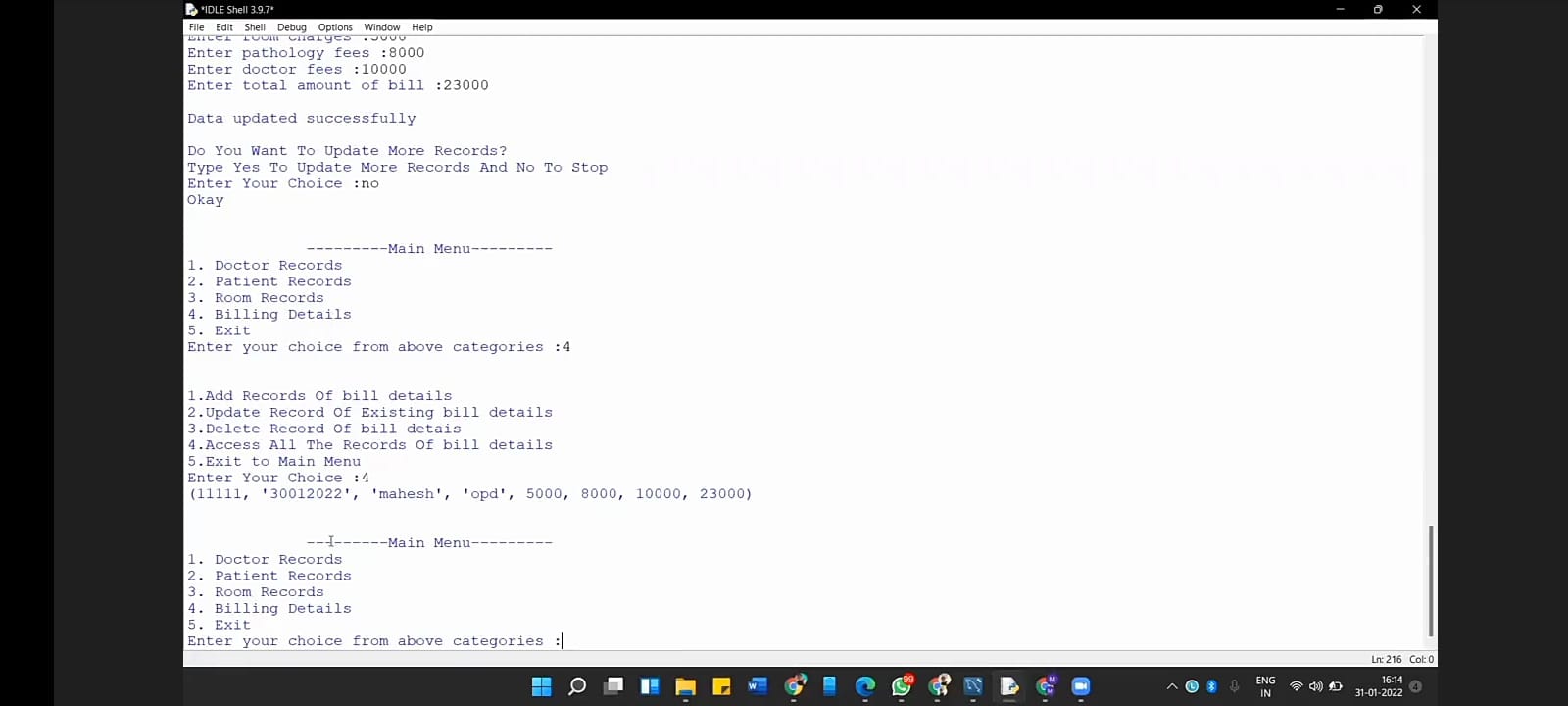
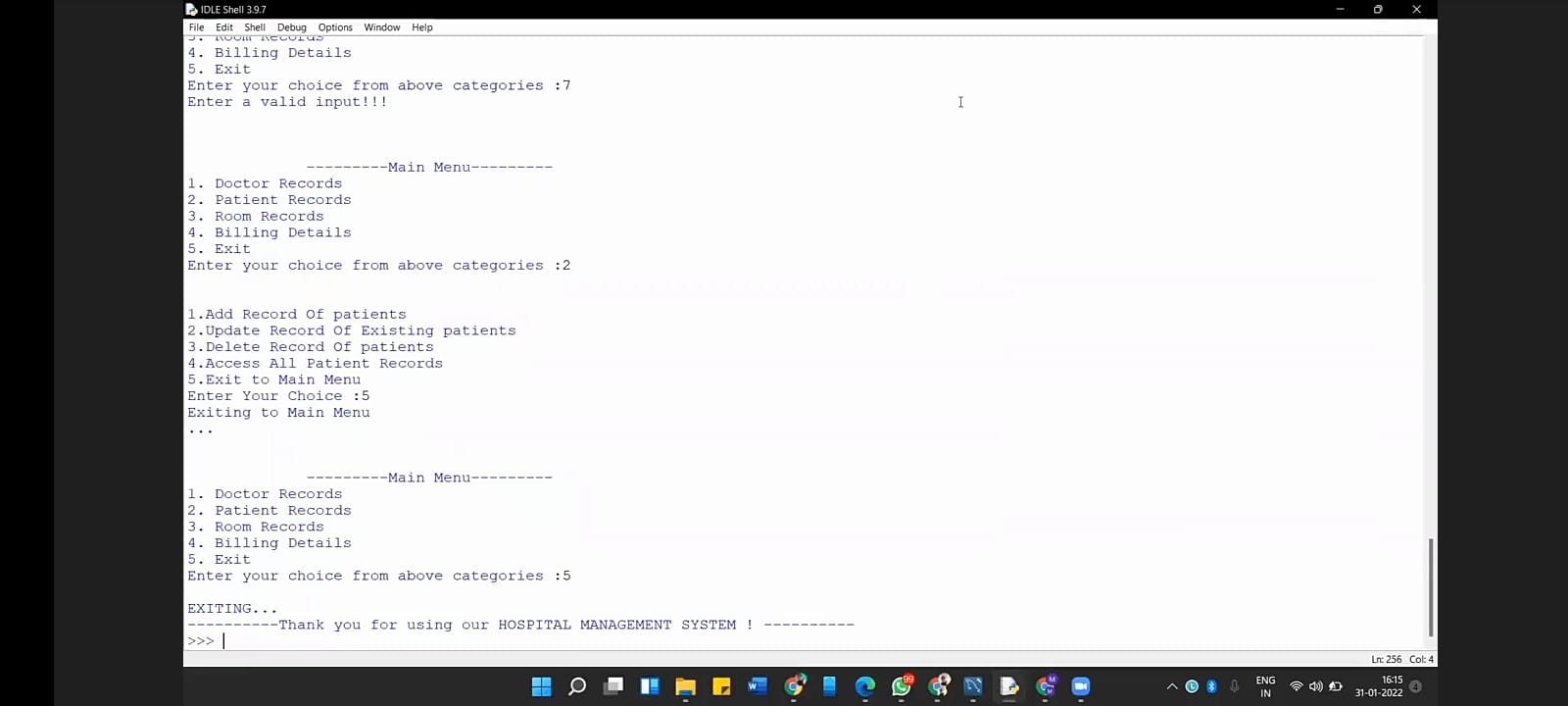
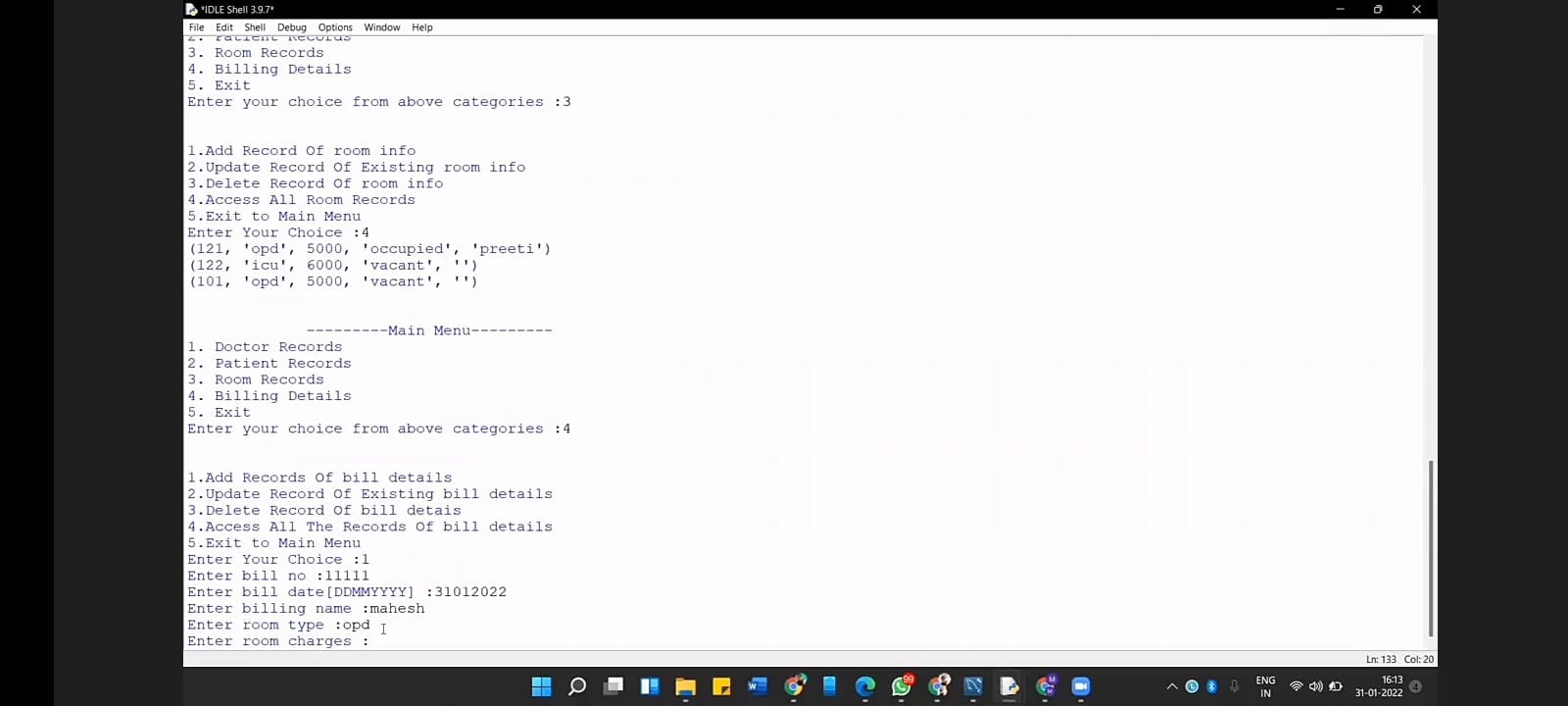
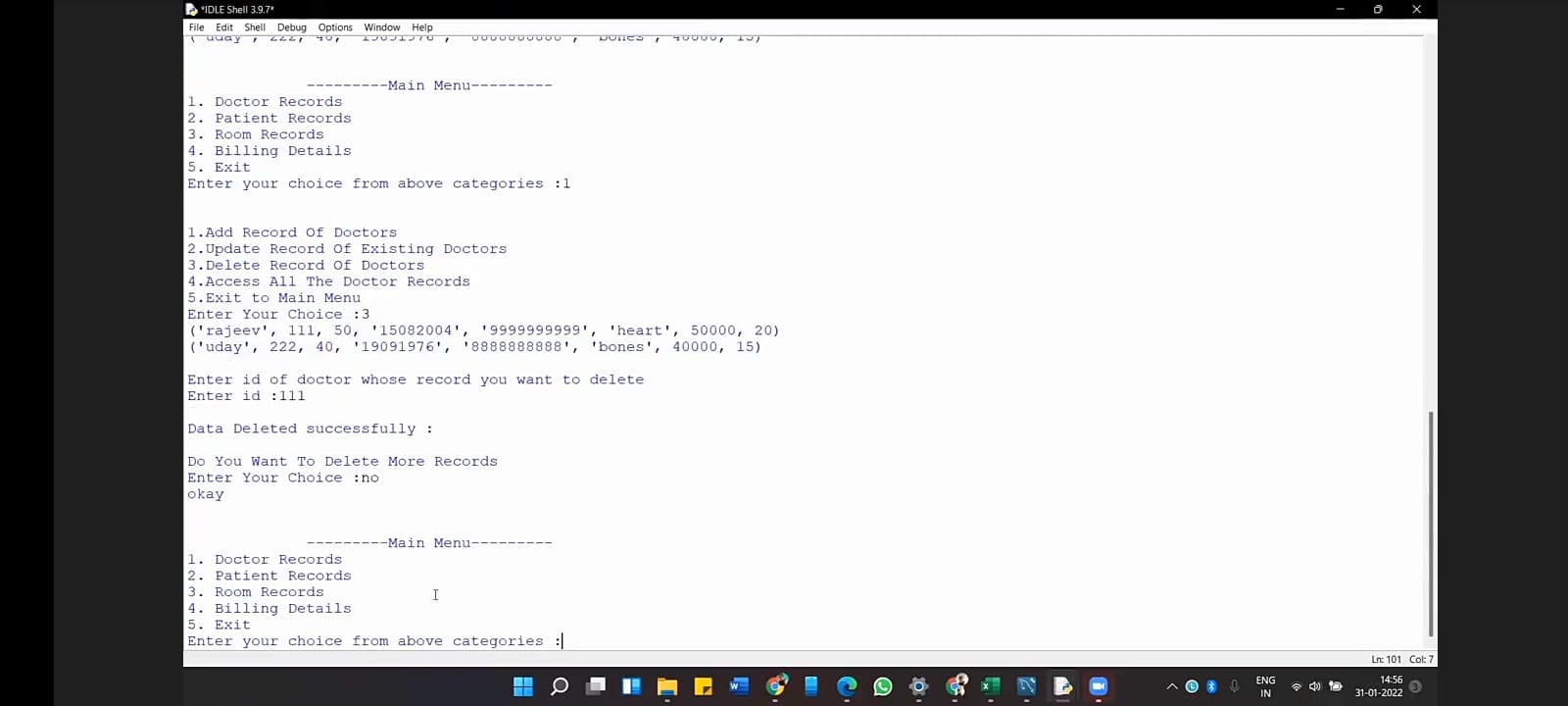
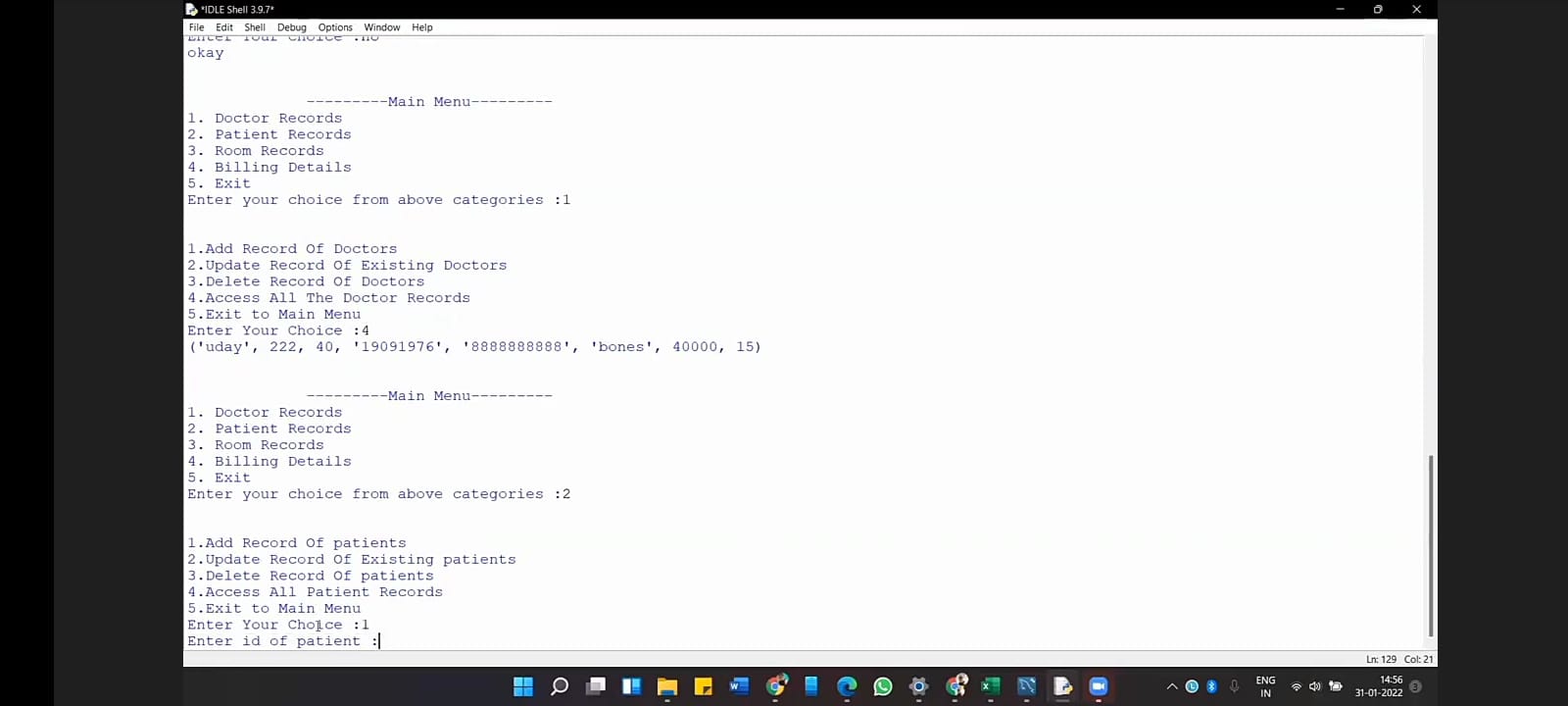
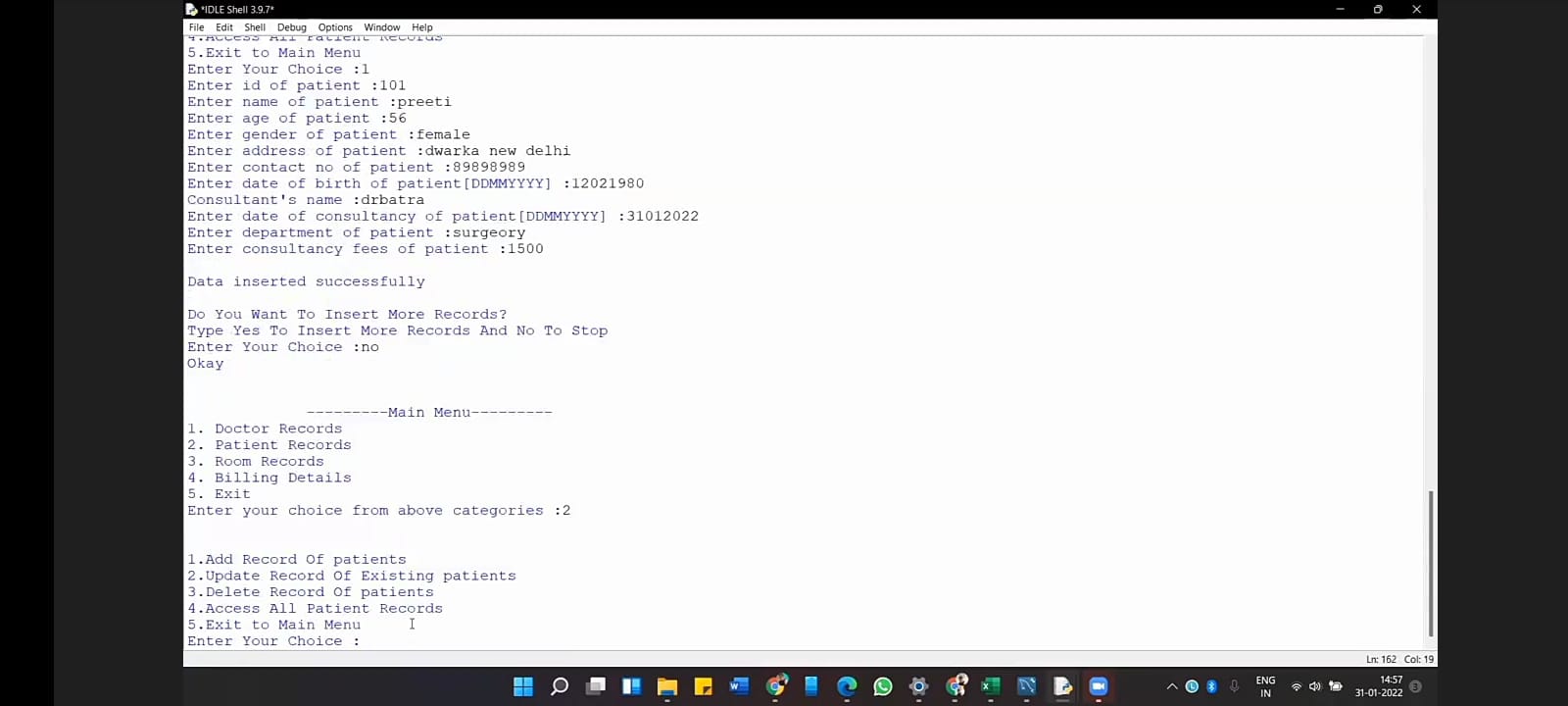
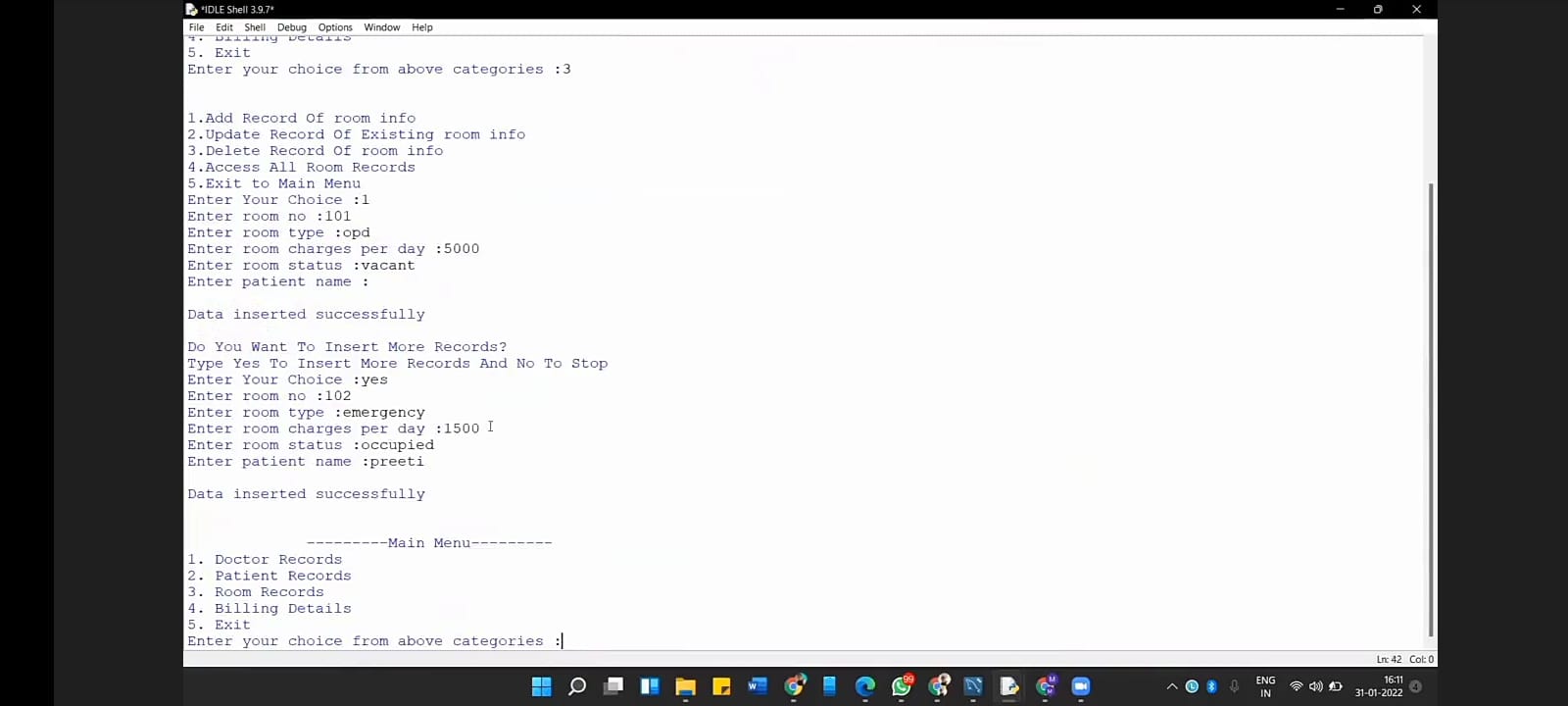
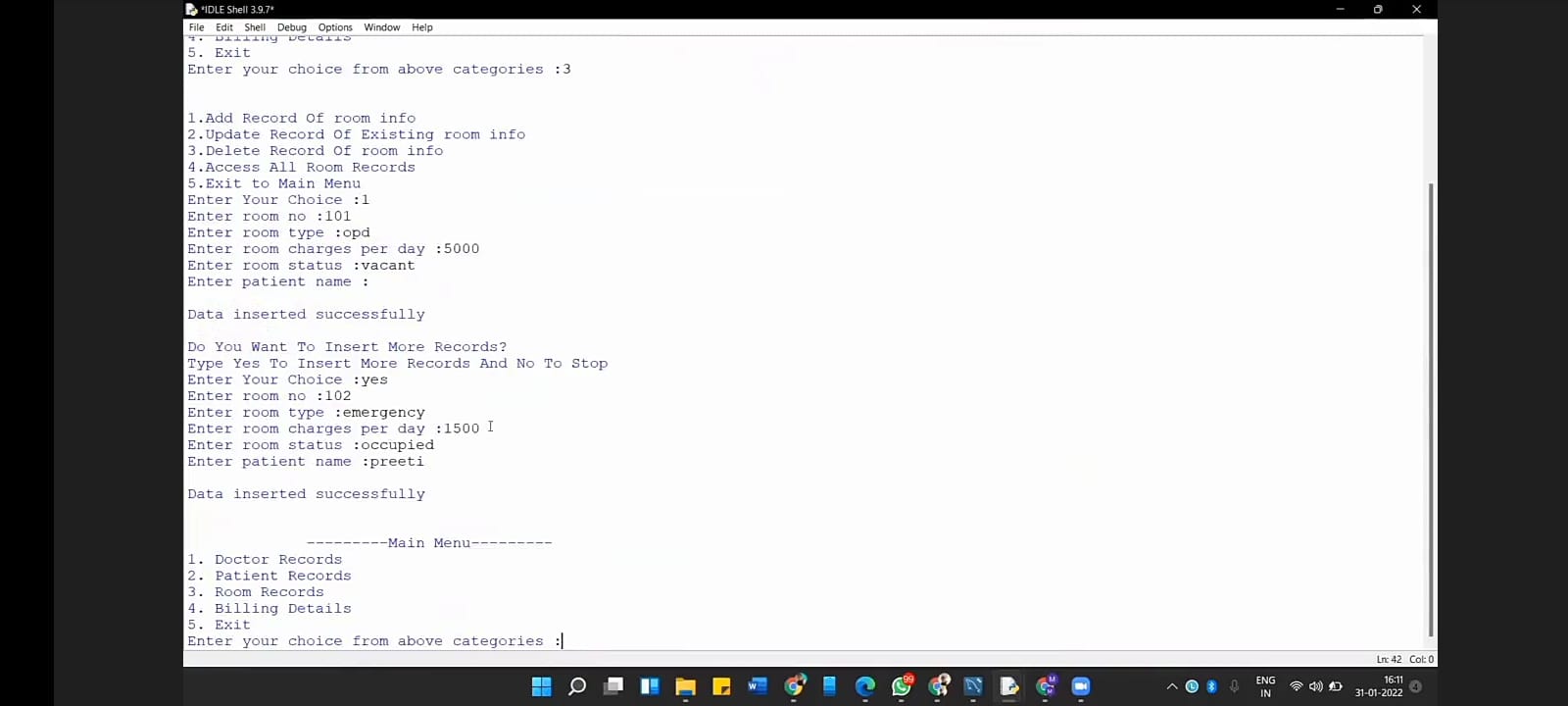
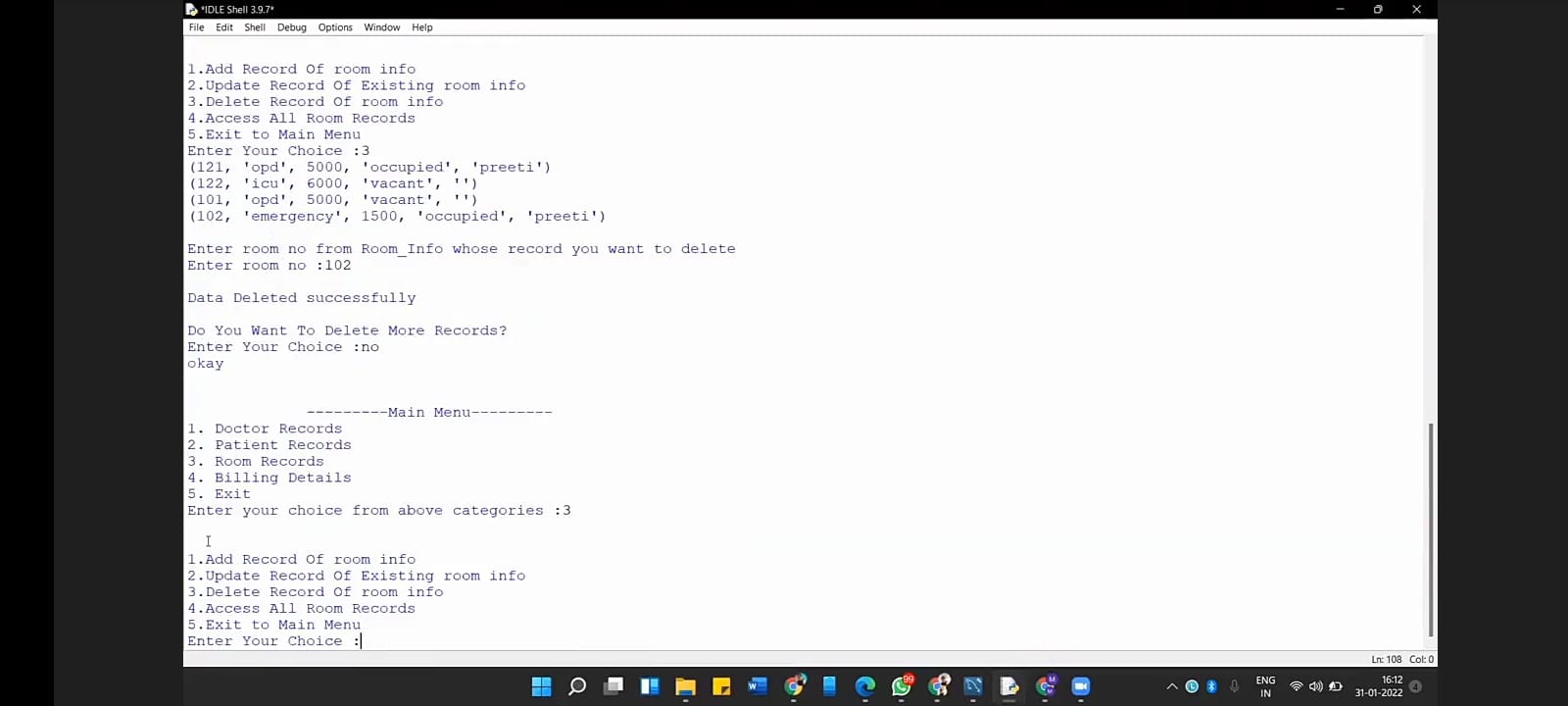
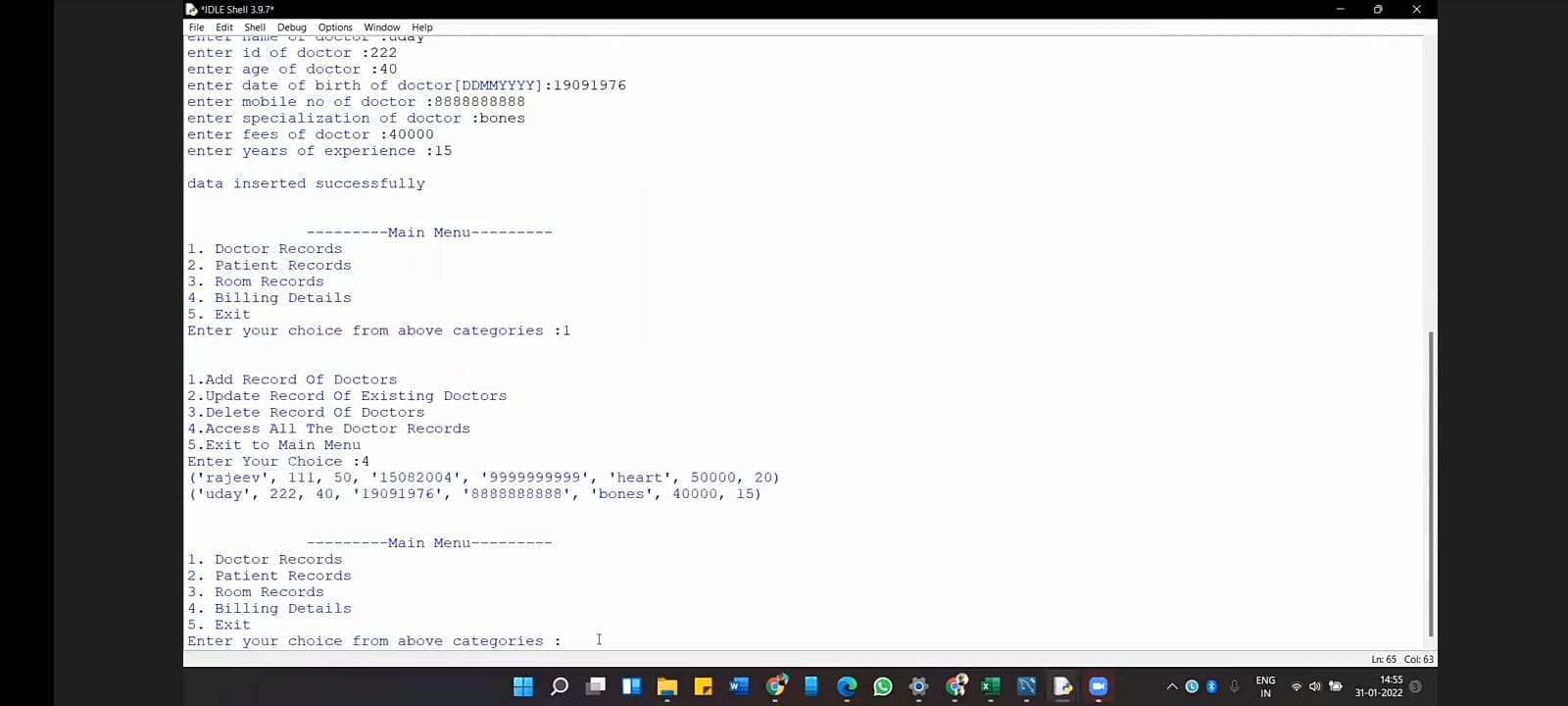
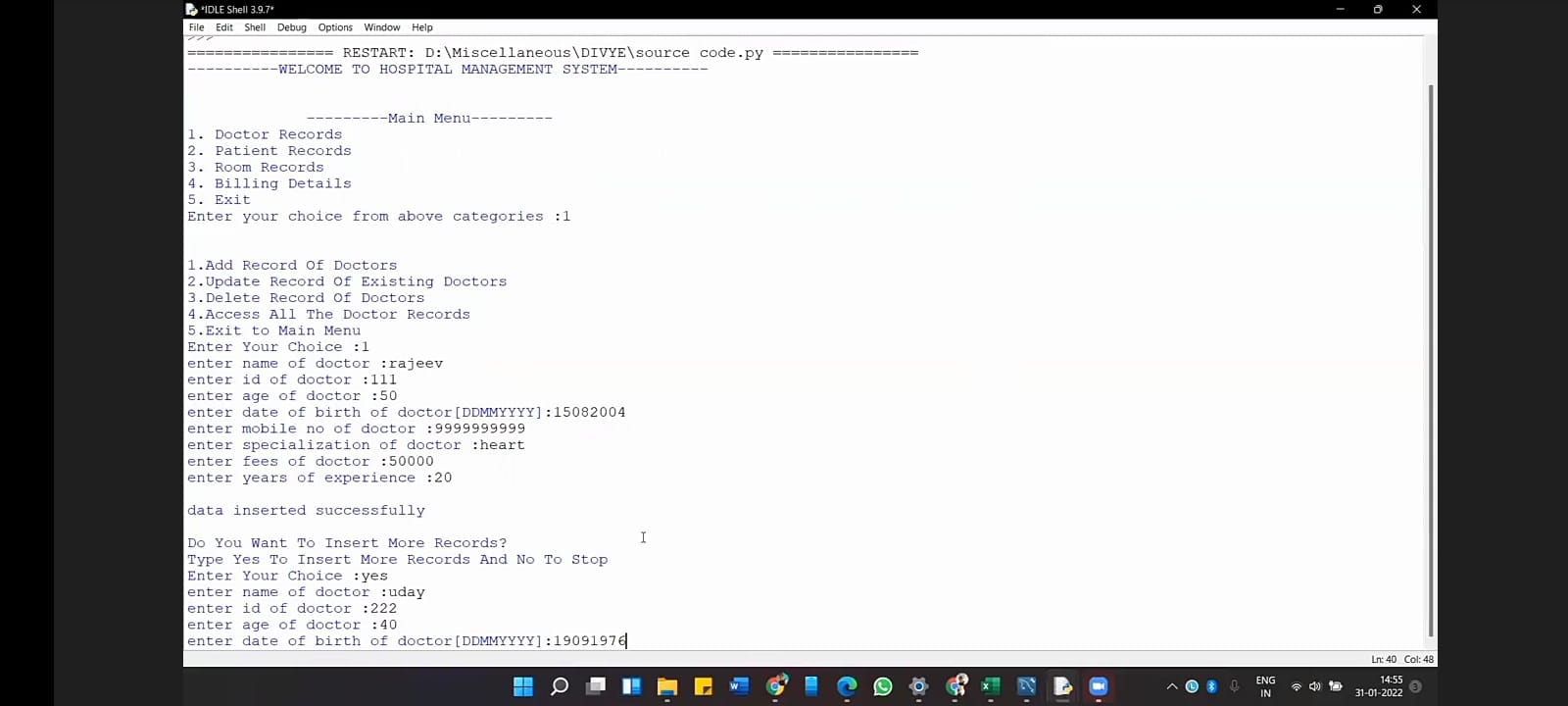
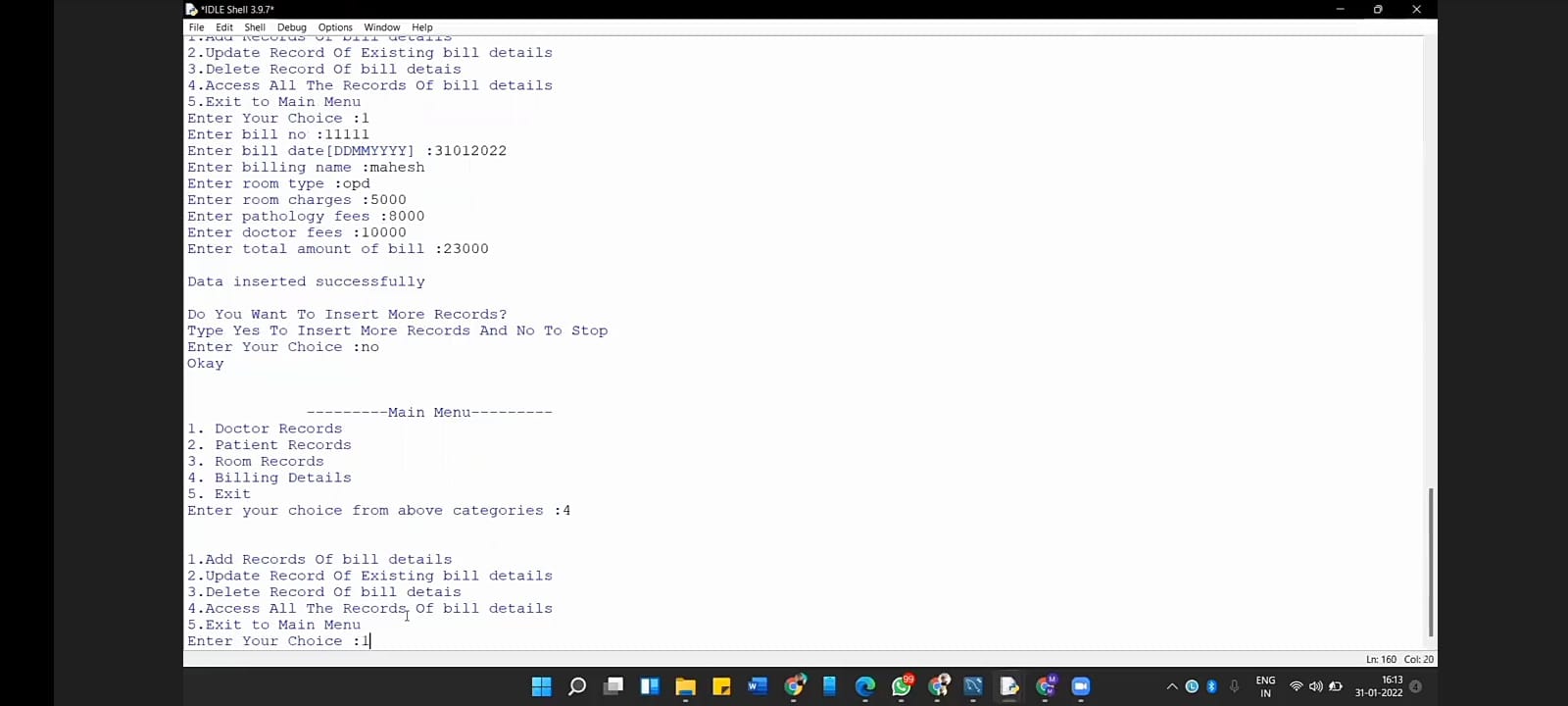
**else**:

**print**("Enter a valid input!!!")

**print**()

menu()

**OUTPUT**

**–**

**BIBLIOGRAPHY**

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* COMPUTER SCIENCE WITH PYTHON-BY PREETI ARORA