So with the final project first I started with Mysql and started working on that first. I created my hospital portal database and then i created a patient table with the correct attributes that was given on the guidelines same with the appointments table but this time created a foreign keys. After that i inserted the values for patient table with 3 entrees. Then I started to create my stored procedure for my appointment scheduling and discharging patients and then i created a doctors table and inserted the values and right after that I created a view for all of them together and that was about it for the sql. Now for my python the challenging part of the project. So first i had to make to files one for the database which I named eample.py and the other for the server which i named server.py. So i copied the starter code for database and pasted to my database file and samething for my server.

```python
class Database():
    def __init__(self,
                 host="localhost",
                 port="3306",
                 database="Hospital_portal",
                 user='root',
                 password='Zommer123'):
```

The first thing that I did was correct my database out with the correct host and the correct port number and made the database name was correct and also the password.

```python
def scheduleAppointment(self, patient_id, doctor_id, appointment_date, appointment_time):
    ''' Method to schedule an appointment '''
    if self.connection.is_connected():
        self.cursor = self.connection.cursor()
        query = "Call ScheduleAppointment (%s, %s, %s, %s)"
        self.cursor.execute(query, (patient_id, doctor_id, appointment_date, appointment_time))
        self.connection.commit()
        return

def viewAppointments(self):
    ''' Method to view all appointments '''
    if self.connection.is_connected():
        self.cursor = self.connection.cursor()
        query = "SELECT * FROM appointments"
        self.cursor.execute(query)
        records = self.cursor.fetchall()
        return records

def dischargePatient(self, patient_id):
    ''' Method to discharge a patient '''
    if self.connection.is_connected():
        self.cursor = self.connection.cursor()
        discharge_date = datetime.now().strftime("%Y-%m-%d")
        query = "UPDATE patients SET discharge_date = %s WHERE patient_id = %s"
        self.cursor.execute(query, (discharge_date, patient_id))
        self.connection.commit()
```

In here I had put new codes to make them functional. Those are the changed that I made for my database and now for the server.

```
from http.server import HTTPServer, BaseHTTPRequestHandler
from os import curdir, sep
from eample import Database
import cgi
```

In here I had to put my file database name which was eample to make things connect with my database.

```
# Call the Database Method to add a new patient. Attention please read this comment!!! See Example call!

self.database.addPatient(patient_name, age, admission_date,discharge_date)
```

I had to just change the example call so my addpatient worked properly.

```
if self.path == '/scheduleAppointment':
    self.send_response(200)
    self.send_header('Content-type','text/html')
    self.end_headers()
    self.wfile.write(b"<html><head><title> Hospital's Portal </title></head>")
    self.wfile.write(b"<body>")
    self.wfile.write(b"<center><h1>Hospital's Portal</h1>")
    self.wfile.write(b"<hr>")
    self.wfile.write(b"<div> <a href='/'>Home</a>| \
                    <a href='/addPatient'>Add Patient</a>|\
                     <a href='/scheduleAppointment'>Schedule Appointment</a>|\
                     <a href='/viewAppointments'>View Appointments</a>|\
                     <a href='/dischargePatient'>Discharge Patient</a></div>")
    self.wfile.write(b"<hr><h2>Schedule Appointiment</h2>")

    self.wfile.write(b"<form action='/scheduleAppointment' method='post'>")
    self.wfile.write(b'<label for="patient_id">Patient id:</label>\
        <input type="text" id="patient_id" name="patient_id"/><br><br>\
        <label for="doctor_id">Doctor id:</label>\
        <input type="appointment_date" id="appointment_date" name="appointment date"><br><br>\
        <label for="admission_date">Admission Date:</label>\
        <input type="date"id="admission_date" name="admission_date"><br><br>\
        <label for="appointment_time">Appointment time:</label>\
        <input type="time"id="appointment_time" name="Appointment_time"><br><br>\
        <input type="submit" value="Submit">\
        </form>')
```

In here I basically used the same format as the addpatient that you provided to build my scheduleappointment to have them functional with the correct attributes and samething goes for viewappointments and dischargepatients.

```
except KeyboardInterrupt:
        pass
```

I added this because when ever i tried to run it before it wont let me run it and showed me errors and after I put that code i was able to run it.