

**Assignment -2**  
IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	P.SEENIVASAN
Student Roll Number	911719104061
Maximum Marks	2 Marks

**Questions:**

- Create a Flask App

```
import email
from turtle import st
from flask import Flask, render_template, request, redirect, url_for, session
from markupsafe import escape

import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=19af6446-6171-4641-8aba-
9dcff8e1b6ff.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lcr86196;PWD=K1KuSfq9rUF9R3C
2",'','')

app = Flask(__name__)

@app.route('/')
def home():
    return render_template('home.html')

@app.route('/addstudent')
def new_student():
    return render_template('add_student.html')

@app.route('/login')
def login_student():
    return render_template('login.html')

@app.route('/addrec', methods = ['POST', 'GET'])
def addrec():
    if request.method == 'POST':

        email = request.form['email']
```

```

    username = request.form['username']
    rollnumber = request.form['rollnumber']
    password = request.form['password']
    insert_sql = "INSERT INTO students VALUES (?, ?, ?, ?)"
    prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prepare_stmt, 1, email)
    ibm_db.bind_param(prepare_stmt, 2, username)
    ibm_db.bind_param(prepare_stmt, 3, rollnumber)
    ibm_db.bind_param(prepare_stmt, 4, password)
    ibm_db.execute(prepare_stmt)

    return render_template('signupcomplete.html', msg="Student Data saved
successfully..")

```

```

@app.route('/checklogin', methods=['POST'])
def checklogin():
    if request.method == 'POST':
        email = request.form['email']
        password = request.form['password']

        sql = "SELECT * FROM students WHERE email =? and password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, email)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            return list()

@app.route('/signup')
def signup():
    return render_template("signup.html")

```

```

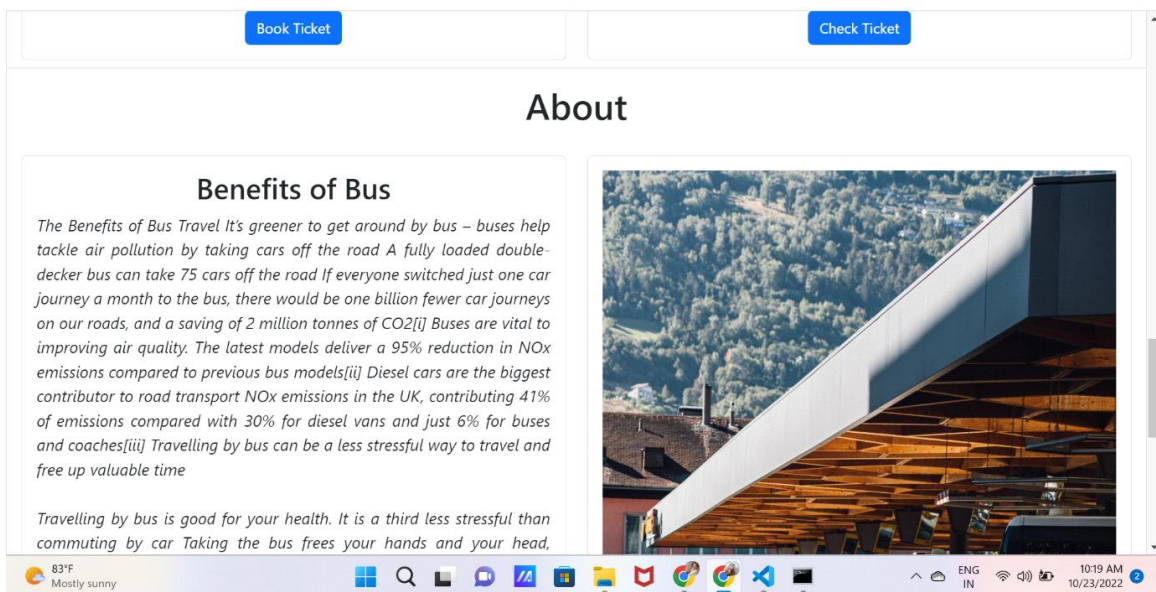
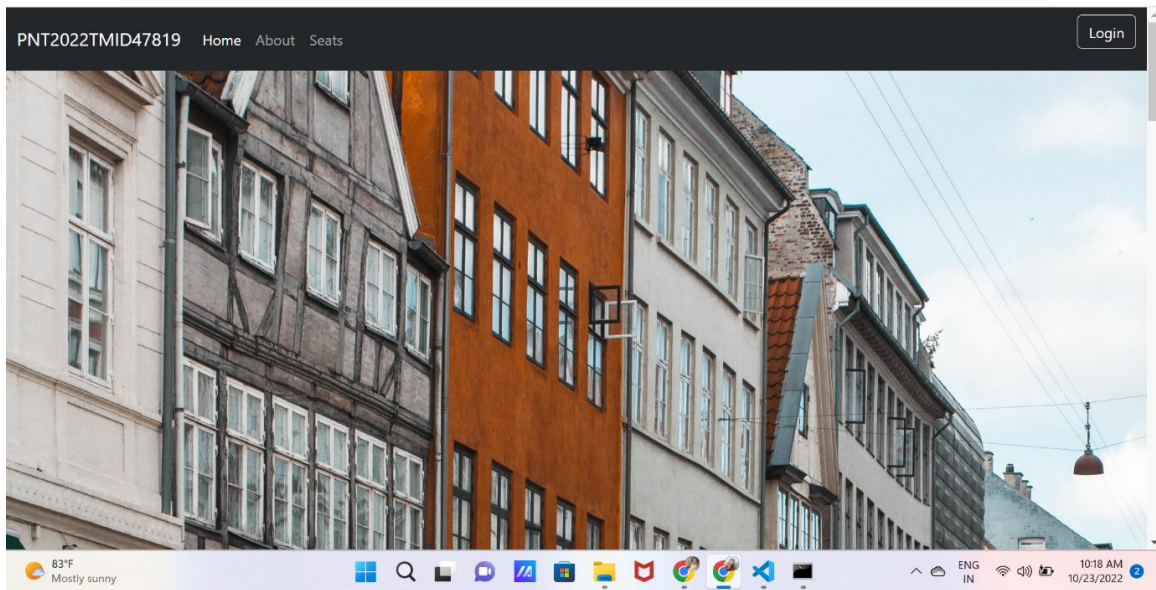
@app.route('/list')
def list():
    students = []
    sql = "SELECT * FROM Students"
    stmt = ibm_db.exec_immediate(conn, sql)
    dictionary = ibm_db.fetch_both(stmt)
    while dictionary != False:
        # print ("The Name is : ", dictionary)

```

```
students.append(dictionary)
dictionary = ibm_db.fetch_both(stmt)

if students:
    return render_template("list.html", students = students)
```

2.) Add the Home page, About Page



### 3.) Add the Bootstrap

```
<!-- CSS only -->
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">

<!-- JavaScript Bundle with Popper -->
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJua0e923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid">
    <a href="#" class="navbar-brand">PNT2022TMID47819</a>
    <button type="button" class="navbar-toggler" data-bs-toggle="collapse"
data-bs-target="#navbarCollapse1">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarCollapse1">
      <div class="navbar-nav">
        <a href="/" class="nav-item nav-link active">Home</a>
        <a href="#about" class="nav-item nav-link">About</a>
        <a href="#seats" class="nav-item nav-link">Seats</a>
      </div>
      <form class="d-flex ms-auto" action="/login">
        <button type="submit" class="btn btn-outline-light">Login</button>
      </form>
    </div>
  </div>
</nav>
```

```
</div>
</div>
</nav>
```

```
<div id="carouselExampleSlidesOnly" class="carousel slide" data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
</div>
```

```
<div class="card text-center" id="seats">
  <div class="card-header">
    <h1>SEATS AVILABILITY</h1><br>
    <div class="row">
      <div class="col-sm-6">
        <div class="card">
          <div class="card-body">
            <h5 class="card-title">Seats Book</h5>
            <p class="card-text">
              A package will always include reserved or general admission
              tickets to the event, and may include one or some of the following: Meet and
              greet with the artist. A photo with the artist. Exclusive access to a private
              pre-show soundcheck. Exclusive access to a backstage tour.
            </p>
            <a href="#" class="btn btn-primary">Book Ticket</a>
          </div>
        </div>
      </div>
    </div>
  </div>
  <div class="col-sm-6">
    <div class="card">
      <div class="card-body">
```

```

        <h5 class="card-title">Seats Check</h5>
        <p class="card-text">NON-AC Seater is one kind of bus type that
is more convenient for the Traveler when they are doing long journeys. NON-AC
Seater available in both A/C as well as Non-A/C Bus Types. NON-AC Seater buses
have the facilities like Push-Back & Water Bottle Holdings, etc.</p>
        <a href="#" class="btn btn-primary">Check Ticket</a>
    </div>
</div>
</div>
</div>
</div>
<div class="card-body" id="about">
    <h1>About</h1><br>
    <div class="row">
        <div class="col-sm-6">
            <div class="card">
                <div class="card-body">
                    <h2 class="card-title">Benefits of Bus</h2>
                    <p class="card-text" style="text-align:justify;font-size:
18px;font-style: italic;">
                        The Benefits of Bus Travel
                        It's greener to get around by bus – buses help tackle air
pollution by taking cars off the road
                        A fully loaded double-decker bus can take 75 cars off the road
                        If everyone switched just one car journey a month to the bus,
there would be one billion fewer car journeys on our roads, and a saving of 2
million tonnes of CO2[i]
                        Buses are vital to improving air quality. The latest models
deliver a 95% reduction in NOx emissions compared to previous bus models[ii]
                        Diesel cars are the biggest contributor to road transport NOx
emissions in the UK, contributing 41% of emissions compared with 30% for diesel
vans and just 6% for buses and coaches[iii]
                        Travelling by bus can be a less stressful way to travel and free
up valuable time
                    <br>
                    <br>
                        Travelling by bus is good for your health. It is a third less
stressful than commuting by car
                        Taking the bus frees your hands and your head, allowing you to
catch up on life admin, read a book or play games on your mobile.
                        Walking to the bus stop can, on average, help you achieve half
the Government's recommended 30 minutes of exercise per day

```

A third of drivers consider driving a chore because of high fuel costs and increased congestion.

<br>

<br>

The bus is good value for everyone

Bus commuters help tackle congestion, which costs the UK economy at £11 billion each year

Bus commuters generate £64 billion of benefits to the UK economy

Tackling loneliness & other social benefits

<br>

<br>

A third (33 per cent) of Britons admit that they deliberately catch the bus to have some human contact[iv]

Young people are more reliant on the bus than any other group – more than 50% of 16-19 year olds use the bus regularly[v]

Jobseekers are heavily dependent on the bus, with 77% having no regular access to a car, van or motorcycle, rising to 87% among 16-24 year olds[vi]

Buses are crucial to family life. 41% of passengers said they believed they would spend less time with family without access to the bus[vii]

Buses help local communities to thrive by keeping local people connecting and strengthening community ties.

<br>

</p>

</div>

</div>

</div>

<div class="col-sm-6">

<div class="card">

<div class="card-body">



</div>

</div>

</div>

</div>

</div>

<div class="card-footer text-muted">

2 days ago

</div>


</div>

4.) Add the Sign in page and App the Signup Page + database connectivity

The screenshot shows a web browser window with the address bar displaying "localhost:5000/login?". The page content is centered and features a user icon at the top. Below the icon, the text "Please sign in" is displayed. There are two input fields: "Email address" with the value "admin@gmail.com" and "Password" with masked characters "\*\*\*\*\*". Below these fields is a checkbox labeled "Remember me". At the bottom of the form are two buttons: a blue "Sign in" button and a red "Sign up" button. The browser's taskbar at the bottom shows the Windows logo, search icon, and various application icons. The system tray on the right indicates the language is "ENG IN", the time is "10:20 AM", and the date is "10/23/2022".

← → ↻ 🔒 📄 ☆ 🖨️ 👤 ⋮

localhost:5000/login?



Please sign in

Email address  
admin@gmail.com

Password  
\*\*\*\*\*

☐ Remember me

Sign in

Sign up

83°F Mostly sunny

Windows taskbar icons: File Explorer, Edge, VS Code, etc.

ENG IN 10:20 AM 10/23/2022



localhost:5000/signup?

## Sign Up

Please fill in this form to create an account.

**Email**

Enter Email

**Username**

admin@gmail.com

**RollNumber**

\*\*\*\*\*

**Password**


Enter Password

☒ Remember me

By creating an account you agree to our [Terms & Privacy](#).

localhost:5000/addrac

# Your Account Has Been Created Successfully




Go to Sign in Page

## List of Students ....

Email	Username	Roll Number	Password
rameshkannan000078@gmail.com	admin	6776567565	adadssdaasdads
	admin		adadssdaasdads
admin@gmail.com	admin	911719104054	admin
ram@gmail.com	ram	7835	divyaread
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin
admin@gmail.com	admin	2443	admin

83°F Mostly sunny



ENG IN 10:20 AM 10/23/2022

IBM Cloud Search resources and products... Catalog Manage Ramesh kannan's Acco...

Resource list / Db2-pw Active Add tags

Details Actions...

Manage

Getting started

Service credentials

Connections


Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials... New credential +

Key name	Date created
Service credentials-1	2022-09-23 5:38 AM

83°F Mostly sunny



ENG IN 10:30 AM 10/23/2022

IBM Db2 on Cloud

Data objects My script

Filter objects

SQL

LCR86196

Tables

STUDENTS

Views

MQTs

Aliases

Nicknames

History

\*Untitled - 1

Beta Classic

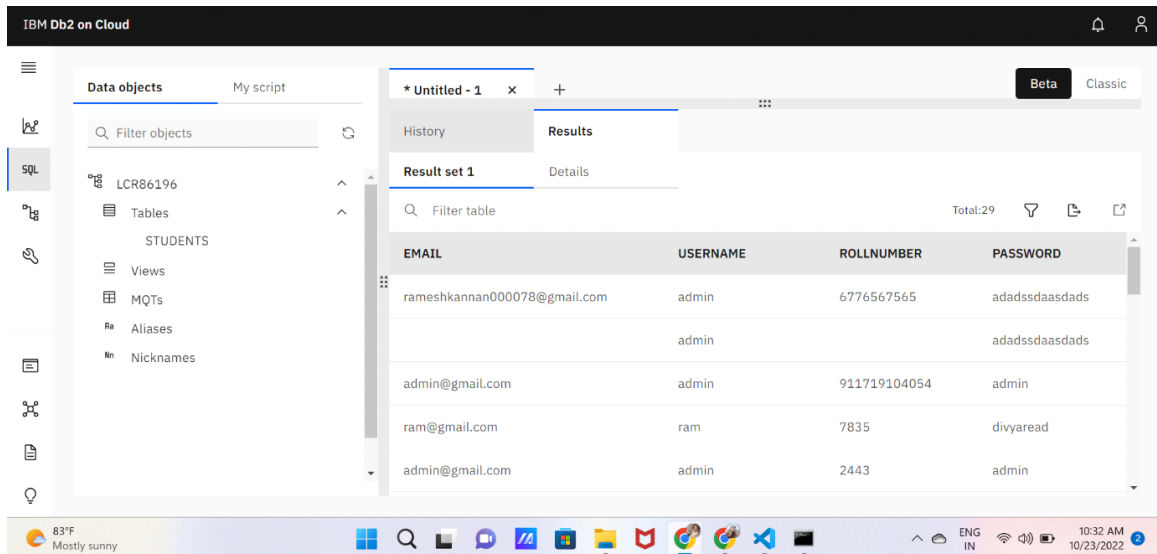
Run all

1 Select \* from students;

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ENG IN 10:31 AM 10/23/2022



```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>ACCOUNT</title>
  <link href="{{url_for('static',
filename='css/assets/dist/css/bootstrap.min.css')}}" rel="stylesheet">
  <style>
    .center {
display: flex;
justify-content: center;
}
  </style>
</head>
<body>
  <div class="center">
    <H1>Your Account Has Been Created Successfully</H1>
    <br>
    <BR>
  
```

```

        
    
```

```

        </div>
        <br>
        <div class="center">
            <form action ="/login">
                <button class="w-40 btn btn-lg btn-danger" type="submit">Go to Sign
in Page</button>
            </form>
        
```

```

    </div>
</body>
</html>

```

```

<!DOCTYPE html>
<html>
<style>
body {font-family: Arial, Helvetica, sans-serif;}
* {box-sizing: border-box}

```

```

/* Full-width input fields */
input[type=text], input[type=password] {
    width: 100%;
    padding: 15px;
    margin: 5px 0 22px 0;
    display: inline-block;
    border: none;
    background: #f1f1f1;
}

```

```

input[type=text]:focus, input[type=password]:focus {
    background-color: #ddd;
    outline: none;
}

```

```

hr {
    border: 1px solid #f1f1f1;
    margin-bottom: 25px;
}

```

```
/* Set a style for all buttons */
```

```
button {  
  background-color: #04AA6D;  
  color: white;  
  padding: 14px 20px;  
  margin: 8px 0;  
  border: none;  
  cursor: pointer;  
  width: 100%;  
  opacity: 0.9;  
}
```

```
button:hover {  
  opacity: 1;  
}
```

```
/* Extra styles for the cancel button */
```

```
.cancelbtn {  
  padding: 14px 20px;  
  background-color: #f44336;  
}
```

```
/* Float cancel and signup buttons and add an equal width */
```

```
.cancelbtn, .signupbtn {  
  float: left;  
  width: 50%;  
}
```

```
/* Add padding to container elements */
```

```
.container {  
  padding: 16px;  
}
```

```
/* Clear floats */
```

```
.clearfix::after {  
  content: "";  
  clear: both;  
  display: table;  
}
```

```
/* Change styles for cancel button and signup button on extra small screens */
```

```
@media screen and (max-width: 300px) {  
  .cancelbtn, .signupbtn {
```

```

        width: 100%;
    }
}
</style>
<body>

<form action = "{{ url_for('addrec') }}" method = "POST" style="border:1px solid #ccc">
    <div class="container">
        <h1>Sign Up</h1>
        <p>Please fill in this form to create an account.</p>
        <hr>

        <label for="email"><b>Email</b></label>
        <input type="text" placeholder="Enter Email" name="email" required>

        <label for="Username"><b>Username</b></label>
        <input type="text" name="username" placeholder="Enter Username" required
        /><br>

        <label for="psw"><b>RollNumber</b></label>
        <input type="password" placeholder="Enter RollNumber" name="rollnumber"
        required>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="password" required>

        <label>
            <input type="checkbox" checked="checked" name="remember" style="margin-
            bottom:15px"> Remember me
        </label>

        <p>By creating an account you agree to our <a href="#"
        style="color:dodgerblue">Terms & Privacy</a>.</p>

        <div class="clearfix">
            <button type="button" class="cancelbtn">Cancel</button>
            <button type="submit" class="signupbtn">Sign Up</button>
        </div>
    </div>
</form>

</body>

```

```
</html>
```