

**Assignment -2**  
IBM CLOUD DB2

Assignment Date	12 october 2022
Student Name	S.Kannan
Student Roll Number	911719104019
Maximum Marks	2 Marks

**Questions:**

1. 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.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=1cr86196;PWD=K1KuSfq9r
UF9R3C2",'','')
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 (?, ?, ?, ?)"

```

```

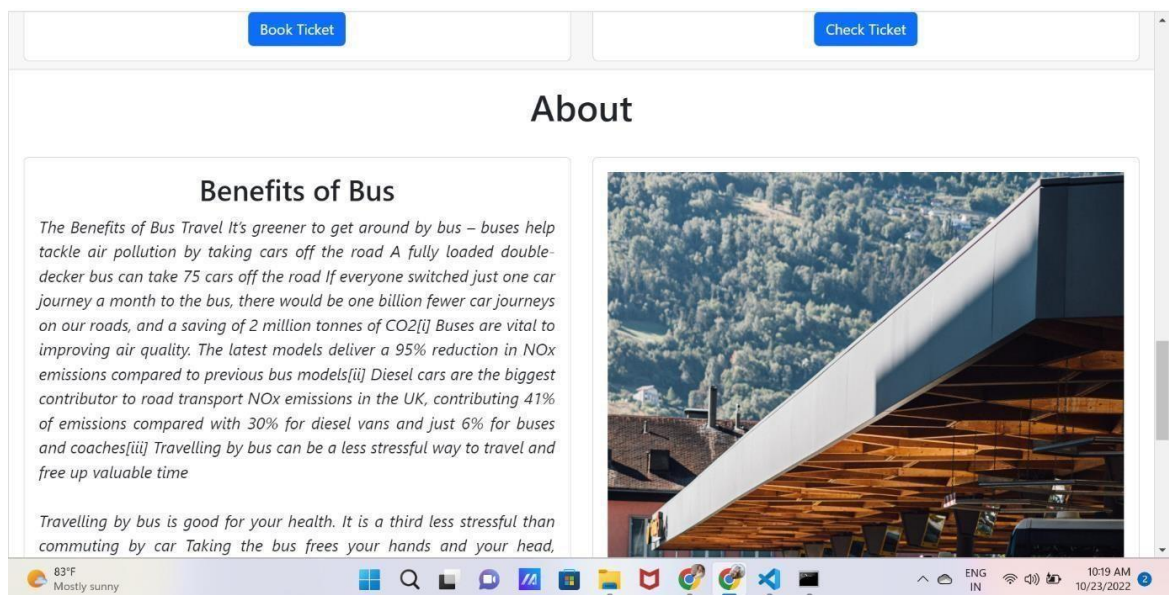
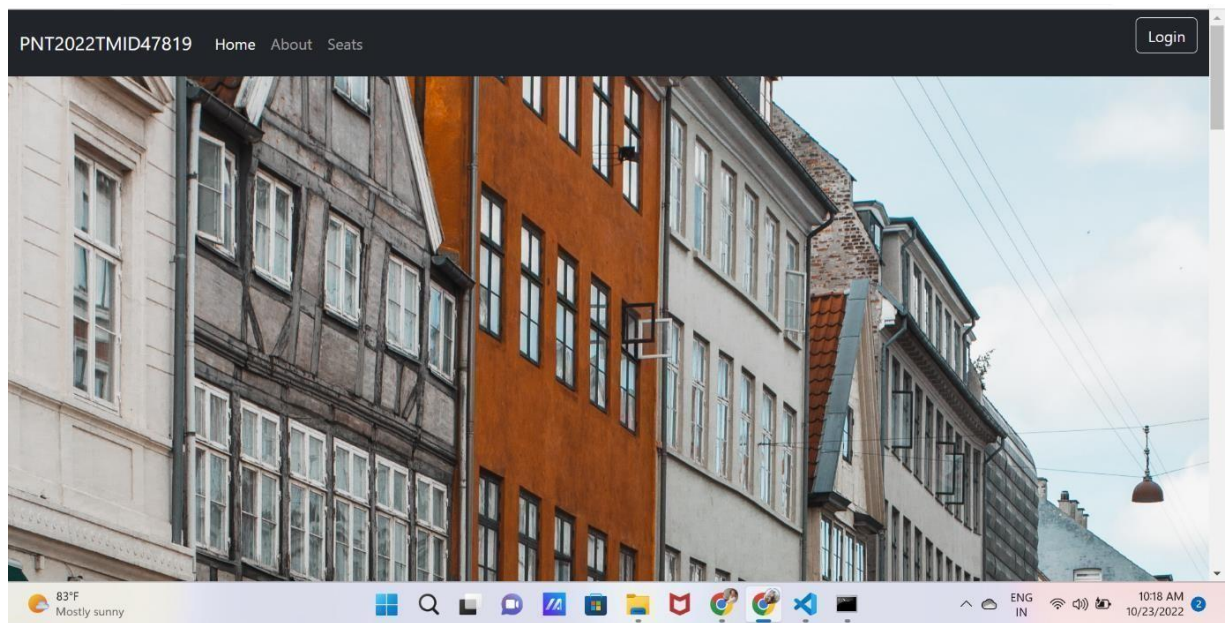
        prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prepare_stmt, 1, email)      ibm_db.bind_param(prepare_stmt, 2,
username)      ibm_db.bind_param(prepare_stmt, 3, rollnumber)
    ibm_db.bind_param(prepare_stmt, 4, password)      ibm_db.execute(prepare_stmt)
        return render_template('signupcomplete.html', 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-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/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-
outlinelight">Login</button>
      </form>
    </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 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]

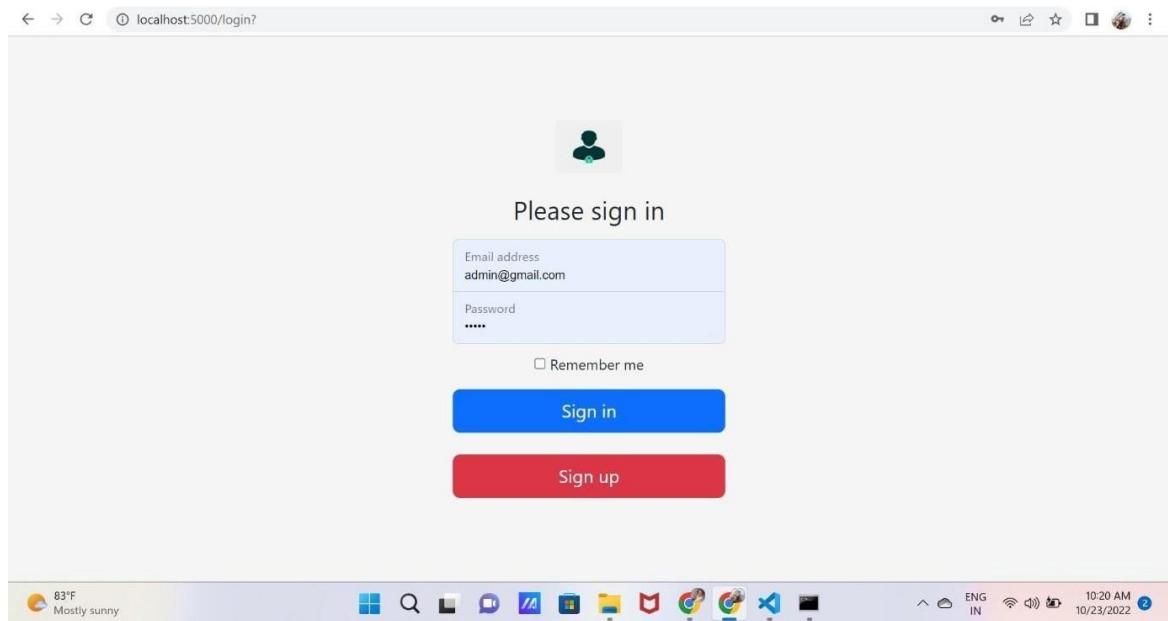
    Young people are more reliant on the bus than any other group
– more than 50% of 16-19 year olds use the bus regularly[v]

    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 class="col-sm-6">
    <div class="card">
        <div class="card-body">
            
        </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



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](#).

83°F Mostly sunny

10:20 AM 10/23/2022

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

LCR86196

Tables

STUDENTS

Views

MQTs

Aliases

Nicknames

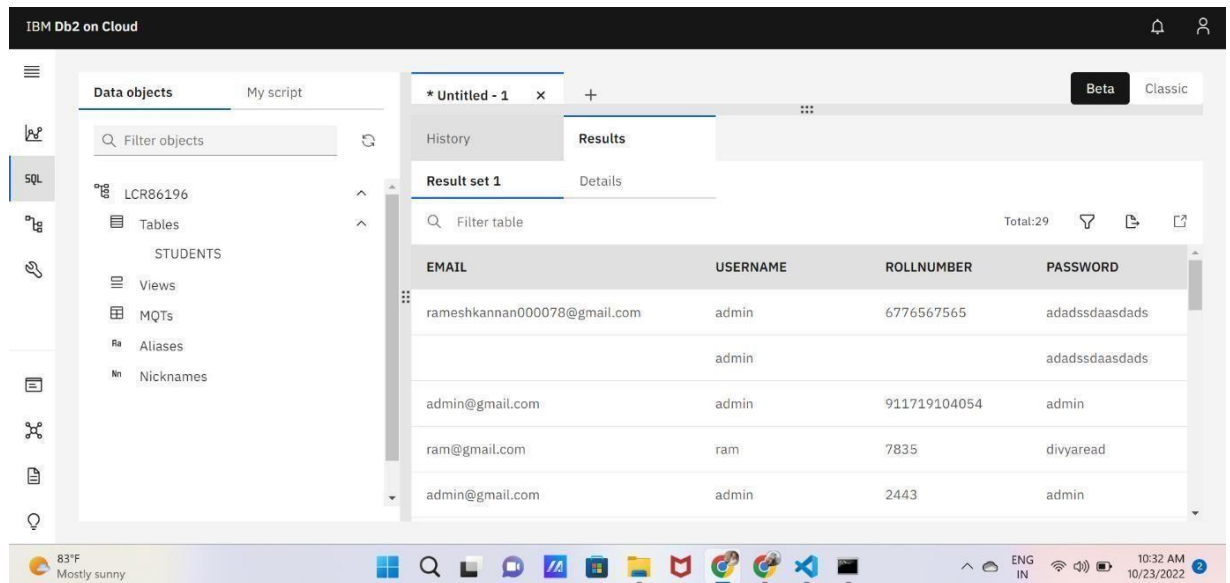
\*Untitled - 1

Beta Classic

Run all

1 Select \* from students;

History



```
<!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="marginbottom: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>
```