

Assignment -2

IBM CLOUD DB2

Assignment Date	24 September 2022
Project Name	Plasma Donar Application
Student Name	Ramkumar P
Student Roll Number	722819104109
Maximum Marks	2 Marks


Question-1: Create User table with user with email,username,roll number, password.

The screenshot shows the IBM Db2 on Cloud console interface. The 'Tables' tab is selected, and a new table named 'USERTABLE' is being defined. The table definition panel on the right shows the following columns:

Name	Data type	Nullable	Length	Scale
USERNAME	CHAR	Y	5	0
ROLLNUMBER	INTEGER	Y		0
EMAIL	CHAR	Y	5	0
PASSWORD	VARCHAR	Y	32	0

The 'View data' button is visible at the bottom of the table definition panel.

The screenshot shows the IBM Db2 on Cloud console interface. The 'DTP46044.USERTABLE' table is selected, and the 'View data' button is visible. The table structure is displayed as follows:

USERNAME	ROLLNUMBER	EMAIL	PASSWORD
 <p>There is no data here yet</p>			

The 'Back' button is visible in the top right corner of the table view.

Question-2: Perform UPDATE,DELETE Queries with user table

The screenshot shows the IBM Db2 on Cloud console interface. On the left, the 'Data objects' tab is selected, showing a list of objects including 'DTP46044'. The main area displays a script editor with the following SQL statement:

```
1 INSERT INTO USERTABLE VALUES ('VK',21,'VK@gamil.com','1234')
```

The script is titled '*Untitled - 1'. Below the script editor, the 'History' tab is active, showing a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 1	Oct 10, 2022 12:51:13 PM	✓ 1	0.018 s
INSERT INTO USERTABLE VALUES ('VK',21,'VK@gamil.com','1234')		✓	0.018 s

The screenshot shows the IBM Db2 on Cloud console interface, specifically the 'Tables' tab. The table 'DTP46044.USERTABLE' is selected. The table structure is displayed as follows:

USERNAME	ROLLNO	EMAIL	PASSWORD
VK	21	VK@gamil.com	1234

The interface also includes a 'Back' button and an 'Export to CSV' button.

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

DTP46044.USERTABLE Back

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
PARAMESH	21	VK@gamil.com	1234
VK	23	VK@gamil.com	12034

IBM Db2 on Cloud

Data objects My script

Filter objects

DTP46044

*Untitled - 1

```
1 DELETE FROM USERTABLE WHERE ROLLNO = 23 ;
```

Run all

History

Script	Date	Status	Runtime
Untitled - 1	Oct 10, 2022 1:02:49 PM	✓ 1	0.006 s
DELETE FROM USERTABLE WHERE ROLLNO = 23		✓	0.006 s
Untitled - 1	Oct 10, 2022 1:00:11 PM	✓ 1	0.007 s
INSERT INTO USERTABLE VALUES ('VK',23,'VK@gamil.com','12034')		✓	0.007 s
Untitled - 1	Oct 10, 2022 12:59:55 PM	✗ 1	0.044 s

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes tabs for Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, and the table 'DTP46044.USERTABLE' is displayed. The table has four columns: USERNAME, ROLLNO, EMAIL, and PASSWORD. A single row of data is visible: PARAMESH, 21, VK@gamil.com, and 1234. There are buttons for 'Back' and 'Export to CSV' in the top right corner of the table view.

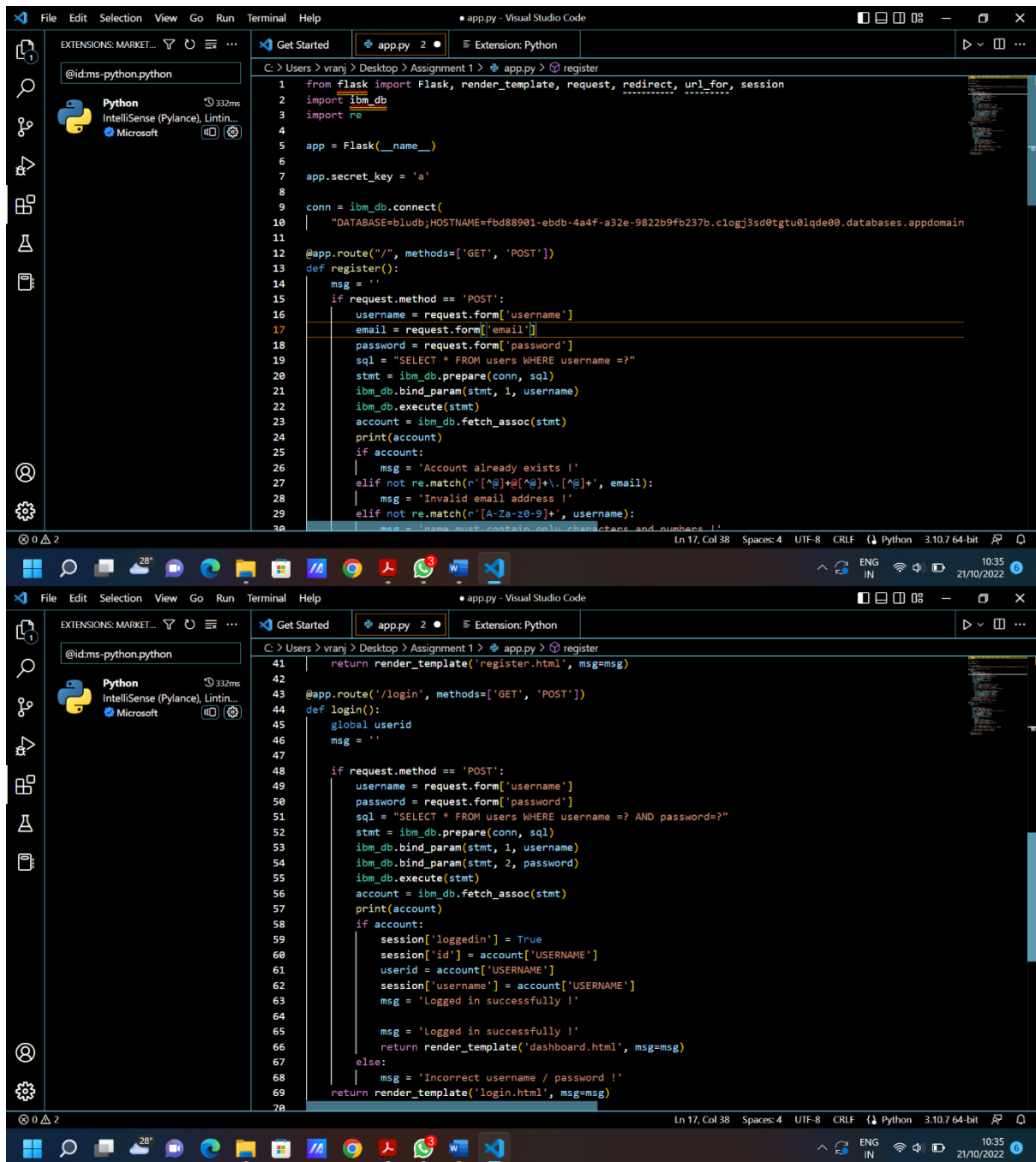
USERNAME	ROLLNO	EMAIL	PASSWORD
PARAMESH	21	VK@gamil.com	1234

Question 3: Connect python code to db2.

Question 4 contains 3

Question 4: Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

App.py



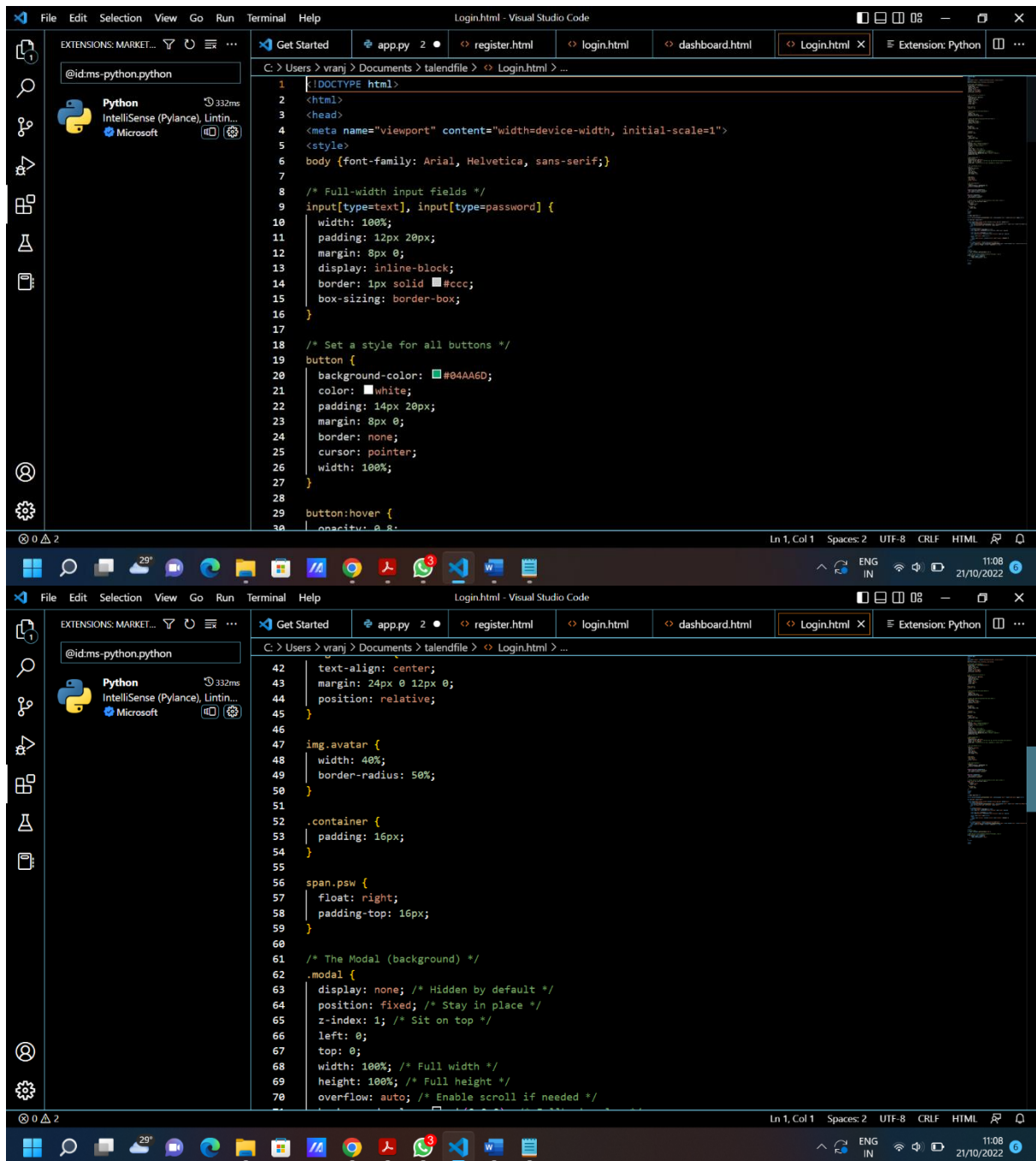
Register.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta name="viewport" content="width=device-width, initial-scale=1">
5 <style>
6 body {
7   font-family: Arial, Helvetica, sans-serif;
8   background-color: black;
9 }
10
11 * {
12   box-sizing: border-box;
13 }
14
15 /* Add padding to containers */
16 .container {
17   padding: 16px;
18   background-color: white;
19 }
20
21 /* Full-width input fields */
22 input[type=text], input[type=password] {
23   width: 100%;
24   padding: 15px;
25   margin: 5px 0 22px 0;
26   display: inline-block;
27   border: none;
28   background: #f1f1f1;
29 }
```

```
28   background: #f1f1f1;
29 }
30
31 input[type=text]:focus, input[type=password]:focus {
32   background-color: #ddd;
33   outline: none;
34 }
35
36 /* Overwrite default styles of hr */
37 hr {
38   border: 1px solid #f1f1f1;
39   margin-bottom: 25px;
40 }
41
42 /* Set a style for the submit button */
43 .registerbtn {
44   background-color: #84AA6D;
45   color: white;
46   padding: 16px 20px;
47   margin: 8px 0;
48   border: none;
49   cursor: pointer;
50   width: 100%;
51   opacity: 0.9;
52 }
53
54 .registerbtn:hover {
55   opacity: 1;
56 }
57
```

```
60 | color: dodgerblue;
61 |
62 |
63 | /* Set a grey background color and center the text of the "sign in" section */
64 | .signin {
65 |   background-color: #f1f1f1;
66 |   text-align: center;
67 | }
68 | </style>
69 | </head>
70 | <body>
71 |
72 | <form action="/action_page.php">
73 |   <div class="container">
74 |     <h1>Register</h1>
75 |     <p>Please fill in this form to create an account.</p>
76 |     <hr>
77 |
78 |     <label for="email"><b>Email</b></label>
79 |     <input type="text" placeholder="Enter Email" name="email" id="email" required>
80 |
81 |     <label for="psw"><b>Password</b></label>
82 |     <input type="password" placeholder="Enter Password" name="psw" id="psw" required>
83 |
84 |     <label for="psw-repeat"><b>Repeat Password</b></label>
85 |     <input type="password" placeholder="Repeat Password" name="psw-repeat" id="psw-repeat" required>
86 |     <hr>
87 |
88 |     <button type="submit" class="registerbtn">Register</button>
89 |
```

Login.html

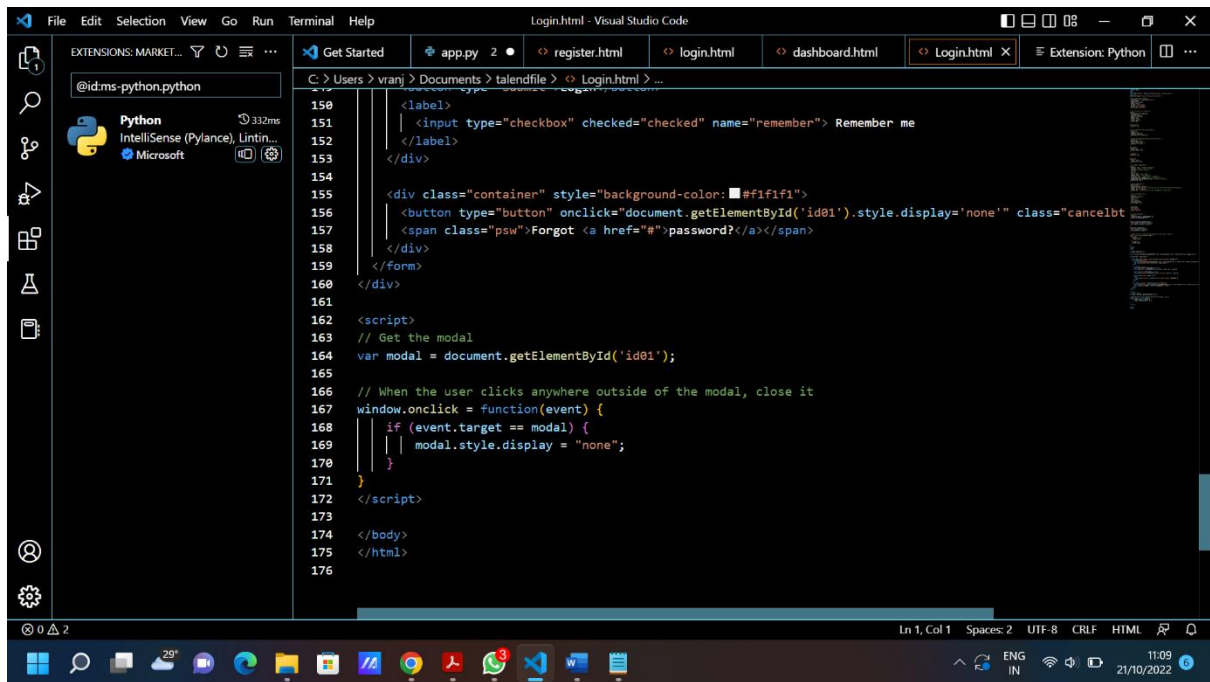


This screenshot shows the Visual Studio Code editor with the file `Login.html` open. The editor displays CSS code for a login form. The left sidebar shows the 'EXTENSIONS: MARKET...' view with the Python extension installed. The top bar shows the file explorer with `register.html`, `login.html`, and `dashboard.html`. The status bar at the bottom indicates 'Ln 1, Col 1' and 'Spaces: 2'.

```
69 height: 100%; /* Full height */
70 overflow: auto; /* Enable scroll if needed */
71 background-color: rgb(0,0,0); /* Fallback color */
72 background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
73 padding-top: 60px;
74
75
76 /* Modal Content/Box */
77 .modal-content {
78   background-color: #fefefe;
79   margin: 5% auto 15% auto; /* 5% from the top, 15% from the bottom and centered */
80   border: 1px solid #888;
81   width: 80%; /* Could be more or less, depending on screen size */
82 }
83
84 /* The Close Button (x) */
85 .close {
86   position: absolute;
87   right: 25px;
88   top: 0;
89   color: #000;
90   font-size: 35px;
91   font-weight: bold;
92 }
93
94 .close:hover,
95 .close:focus {
96   color: red;
97   cursor: pointer;
98 }
```

This screenshot shows the Visual Studio Code editor with the file `Login.html` open, continuing the CSS code from the previous screenshot. The left sidebar shows the 'EXTENSIONS: MARKET...' view with the Python extension installed. The top bar shows the file explorer with `register.html`, `login.html`, and `dashboard.html`. The status bar at the bottom indicates 'Ln 1, Col 1' and 'Spaces: 2'.

```
98
99
100 /* Add Zoom Animation */
101 .animate {
102   -webkit-animation: animatezoom 0.6s;
103   animation: animatezoom 0.6s
104 }
105
106 @-webkit-keyframes animatezoom {
107   from {-webkit-transform: scale(0)}
108   to {-webkit-transform: scale(1)}
109 }
110
111 @keyframes animatezoom {
112   from {transform: scale(0)}
113   to {transform: scale(1)}
114 }
115
116 /* Change styles for span and cancel button on extra small screens */
117 @media screen and (max-width: 300px) {
118   span.psw {
119     display: block;
120     float: none;
121   }
122   .cancelbtn {
123     width: 100%;
124   }
125 }
126 </style>
127 </head>
```



Dashboard.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Home page</title>
9   <meta charset="UTF-8">
10
11   <!-- bootstrap css cdn -->
12   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
13     integrity="sha384-JcKb8q3iqJ61gV9K9b8thSsNP8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anony">
14   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.
15   <!-- css stylesheet -->
16   <link rel="stylesheet" href="/static/css/style.css">
17   <!-- font styles cdn -->
18   <link rel="preconnect" href="https://fonts.gstatic.com">
19   <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap" rel="stylesheet">
20   <link href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap" rel="stylesheet">
21 </head>
22
23 <body>
24   <h1>WELCOME TO HOME PAGE</h1>
25   
27 </body>
28
29 </html>
```

Output:

