



**VIT<sup>®</sup>**  
**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

**SCHOOL OF COMPUTER SCIENCE ENGINEERING  
AND INFORMATION SYSTEMS**

**WINTER SEMESTER 2024-2025**

**PMCA601L – FULL STACK WEB DEVELOPMENT LAB**

**LAB EXERCISE – 1**

**SUBMITTED ON: 13 – JAN - 2025**

**SUBMITTED BY-**

**AKASH KUMAR BANIK**

**PROGRAM: MCA**

**REGISTER No.: 24MCA0242**

## LAB EXERCISE – 1

**1. Create a page aboutme.html that describes you. Include information such as:**

- a. Your name in the top of the page in large text and your address in smaller text**
- b. A description of you in <= 2 sentences. Emphasize important word(s) in bold.**
- c. Print a paragraph with 4 - 5 sentences. Each sentence should be a different font.**
- d. Print a paragraph that is a description of a book; include the title of the book as well as its author. Names and titles should be underlined, adjectives should be italicized and bolded.**
- e. A list of classes you are taking right now with a simple description of each with interesting subjects in marvellous colours. (list)**
- f. List your family members, friends and your favourite social leaders name as list under each category.**
- g. Two images that represent you when you're happy and sad.**
- h. Set the background color of the page as yellow.**
- i. Something about one of your neighbours (people sitting next to you, make it interesting as well.**
- j. Describe your skill level in programming languages.**

**CODE:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>About Me</title>
  <style>
    body {
```

```
background-color: rgb(243, 243, 131);
padding: 30px 100px 30px 100px;
line-height: 1.5;
text-align: justify;
}
.head{
text-align: center;
line-height: 1;
}
.wrapper {
font-size: large;
}
h1 {
font-size: 2.5em;
color: darkblue;
}
h2 {
font-size: 1.7em;
color: darkgreen;
}
.list-item {
color: maroon;
}
</style>
</head>
<body>
<div class="head">
<h1>AKASH KUMAR BANIK</h1>
<h2>MH-C Block, Vellore Institute of Technology, Vellore, Tamil Nadu, India</h2>
</div>
```

---

I am an <b>MCA student</b> with a passion for <b>design and development</b> in the tech world. I am actively seeking opportunities to grow as a tech enthusiast.</p>

<p>

<span style="font-family: Arial;">I enjoy exploring new technologies and developing innovative solutions.</span>

<span style="font-family: Times New Roman;">Reading books, especially on technology and self-growth, is one of my favorite hobbies.</span>

<span style="font-family: Courier New;">I also love coding and continuously improving my programming skills.</span>

<span style="font-family: Georgia;">Music inspires me and keeps me focused on my goals.</span>

</p>

<p>

The book I highly recommend is "<u>Computer Graphics and Vectors</u>" by Nilanjana P. <br>This is an excellent resource for beginners and intermediate learners, covering both <b><i>fundamentals</i></b> and <b><i>advanced topics</i></b> in depth.

</p>

## <ul> <li class="list-item"><b>Full Stack Web Development </b>- Learning HTML, CSS, JavaScript, ReactJS, and NodeJS.</li> <li class="list-item"><b>Machine Learning </b>- Focusing on classification, prediction algorithms, and data mining techniques.</li> <li class="list-item"><b>Software Testing</b> - Exploring methodologies like White-box testing, Black-box testing, and Grey-box testing. It also includes difference between the SDLC and STLC.</li> <li class="list-item"><b>Software Engineering </b>- Studying SDLC models and their importance in developing efficient software products.</li> <li class="list-item"><b>Cybersecurity </b>- Understanding network vulnerabilities and implementing protective measures.</li> </ul> Page | 3

## <h2>People in My Life</h2>

### <h3>Family</h3>

<ul>

<li>Father: Ash Ketchum</li>

<li>Mother: Serena</li>

<li>Sibling: Brock</li>

</ul>

### <h3>Friends</h3>

<ul>

<li>Rahul Mittal (Rahulul-bin-laden)</li>

<li>Karan Maurya (K.K.K.K.Kiran)</li>

<li>Shashank Kumar (Genda)</li>

<li>Aatish Prasad (Golden Retriever)</li>

</ul>

### <h3>Social Leaders</h3>

<ul>

<li>Adolf Hitler</li>

<li>Vladimir Putin</li>

<li>Kim Jong Un</li>

</ul>

## <h2>Emotions</h2>

<p>Here are two images representing my happy and sad emotions:</p>





## <h2>About My Neighbours</h2>

<p>Living next to <b>Rahul Mittal</b> and <b>Karan Maurya</b> is nothing short of an adventure. Rahul, aka 'Rahulul-bin-laden,' is always plotting his next 'master plan'—usually involving harmless pranks that keep us all on our toes. Meanwhile, Karan, better known as 'K.K.K.K.Kiran,' spends his days perfecting his dramatic Bollywood-style entrances, complete with slow-motion walks and imaginary background music.</p>

Together, they bring a unique blend of chaos and entertainment to the neighborhood. Whether it's Rahul's knack for turning every mundane event into a comedy show or Karan's endless supply of hilarious one-liners, there's never a dull moment when they're around!

## Skill Levels



- Python: Advanced

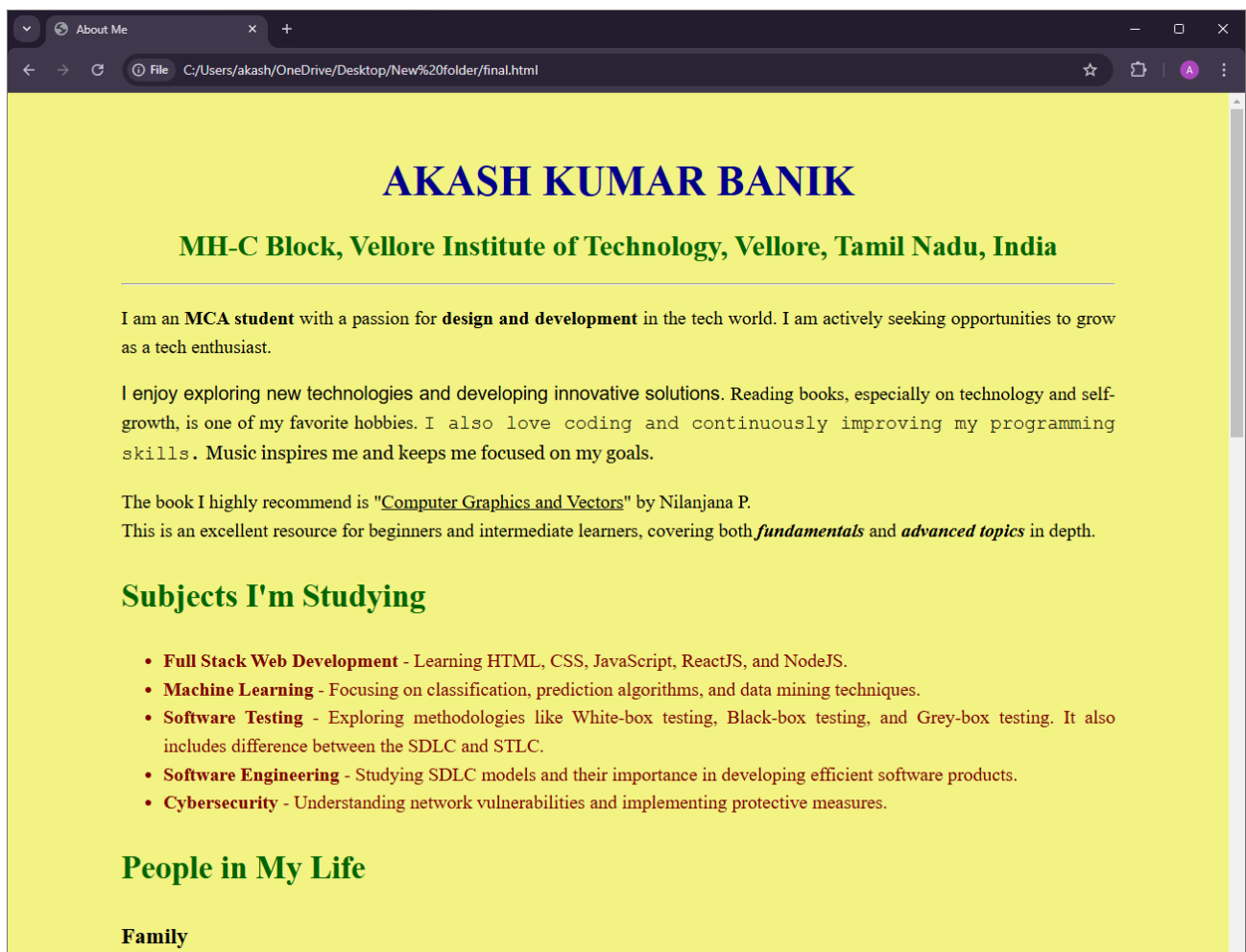
- Java: Intermediate

- C: Intermediate

- JavaScript: Beginner



OUTPUT:



- Father: Ash Ketchum
- Mother: Serena
- Sibling: Brock

### Friends

- Rahul Mittal (Rahulul-bin-laden)
- Karan Maurya (K.K.K.K.Kiran)
- Shashank Kumar (Genda)
- Aatish Prasad (Golden Retriever)

### Social Leaders

- Adolf Hitler
- Vladimir Putin
- Kim Jong Un

## Emotions

Here are two images representing my happy and sad emotions:



## About My Neighbours

Living next to **Rahul Mittal** and **Karan Maurya** is nothing short of an adventure. Rahul, aka 'Rahulul-bin-laden,' is always plotting his next 'master plan'—usually involving harmless pranks that keep us all on our toes. Meanwhile, Karan, better known as 'K.K.K.K.Kiran,' spends his days perfecting his dramatic Bollywood-style entrances, complete with slow-motion walks and imaginary background music.

Together, they bring a unique blend of chaos and entertainment to the neighborhood. Whether it's Rahul's knack for turning every mundane event into a comedy show or Karan's endless supply of hilarious one-liners, there's never a dull moment when they're around!

## Skill Levels

- Python: Advanced
- Java: Intermediate
- C: Intermediate
- JavaScript: Beginner

**2. Write a HTML code to design the following layout in formatted form and apply CSS box Model**

First Name:  Last Name:

Date of birth:  Age:

Gender:  Email Address:

Positions Available: ☐ Junior Developer ☐ Mid-level Developer ☐ Senior Developer

Programming Languages: ☐ Java ☐ JavaScript ☐ Python

Password:  Confirm Password:

**CODE:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Developer Signup</title>
  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: 'Roboto', sans-serif;
    }
    body {
      background: linear-gradient(135deg, #968dec, #2ebf91);
      display: flex;
      justify-content: center;
```



```
    align-items: center;
    height: 100vh;
    color: #333;
}

.container {
    background-color: #fff;
    border-radius: 12px;
    box-shadow: 0 8px 20px rgba(0, 0, 0, 0.2);
    padding: 40px;
    width: 90%;
    max-width: 700px;
    text-align: center;
}

.container h2 {
    color: #4a47a3;
    font-size: 2rem;
    margin-bottom: 1.5em;
}

.form-group {
    margin-bottom: 1.5em;
    text-align: left;
}

.form-group label {
    display: block;
    font-weight: bold;
    margin-bottom: 0.5em;
    color: #4a47a3;
}

.form-group input, .form-group select {
```

```
    width: 100%;
```

```
padding: 12px;
border: 1px solid #968dec;
border-radius: 8px;
font-size: 1rem;
color: #555;
outline: none;
transition: all 0.3s ease;
}
.form-group input:focus, .form-group select:focus {
border-color: #2ebf91;
box-shadow: 0 0 5px rgba(46, 191, 145, 0.5);
}
.form-row {
display: flex;
flex-wrap: wrap;
gap: 20px;
}
.form-row .form-group {
flex: 1;
min-width: 45%;
}
.btn-submit, .btn-reset {
width: 100%;
padding: 14px;
background-color: #4a47a3;
color: #fff;
font-weight: bold;
border: none;
border-radius: 8px;
cursor: pointer;
```

```
    font-size: 1.1rem;
    transition: background-color 0.3s ease;
}

.btn-reset {
    background-color: #ccc;
    color: #333;
}

.btn-submit:hover {
    background-color: rgb(60, 190, 60);
}

.btn-reset:hover {
    background-color: #9c9b9b;
}

.form-group.radio-group, .form-group.checkbox-group {
    display: flex;
    flex-wrap: wrap;
    gap: 10px;
    align-items: center;
}

.form-group.radio-group input, .form-group.checkbox-group input {
    margin-right: 8px;
}

</style>
</head>
<body>
<div class="container">
  <h2>Developer Signup Form</h2>
  <form>
    <div class="form-row">
```

```
<div class="form-group">
  <label for="fName">First Name</label>
  <input type="text" id="fName" name="fName" required>
</div>

<div class="form-group">
  <label for="lName">Last Name</label>
  <input type="text" id="lName" name="lName" required>
</div>
</div>

<div class="form-row">
  <div class="form-group">
    <label for="dob">Date of Birth</label>
    <input type="date" name="dob" id="dob" required>
  </div>

  <div class="form-group">
    <label for="age">Age</label>
    <input type="number" name="age" id="age" required>
  </div>
</div>

<div class="form-row">
  <div class="form-group">
    <label for="gender">Gender</label>
    <select name="gender" id="gender" required>
      <option value="male">Male</option>
      <option value="female">Female</option>
      <option value="trans">Transgender</option>
    </select>
  </div>

  <div class="form-group">
    <label for="email">Email</label>
```

```
<input type="email" name="email" id="email" required>
</div>
</div>
<div class="form-row">
  <div class="form-group radio-group">
    <label>Position</label>
    <label><input type="radio" name="pos" value="j-dev" required> Junior
Developer</label>
    <label><input type="radio" name="pos" value="m-dev" required> Mid-level
Developer</label>
    <label><input type="radio" name="pos" value="s-dev" re> Senior Developer</label>
  </div>
</div>
<div class="form-row">
  <div class="form-group checkbox-group">
    <label>Programming Languages</label>
    <label><input type="checkbox" name="lang" value="java"> Java</label>
    <label><input type="checkbox" name="lang" value="js"> JavaScript</label>
    <label><input type="checkbox" name="lang" value="python"> Python</label>
  </div>
</div>
<div class="form-row">
  <div class="form-group">
    <label for="password">Password</label>
    <input type="password" id="password" name="password" required>
  </div>
  <div class="form-group">
    <label for="confirmPassword">Confirm Password</label>
    <input type="password" id="confirmPassword" name="confirmPassword" required>
  </div>
</div>
```

```
</div>

<div class="form-row">

  <button type="submit" class="btn-submit">Sign Up</button>

  <button type="reset" class="btn-reset">Reset</button>

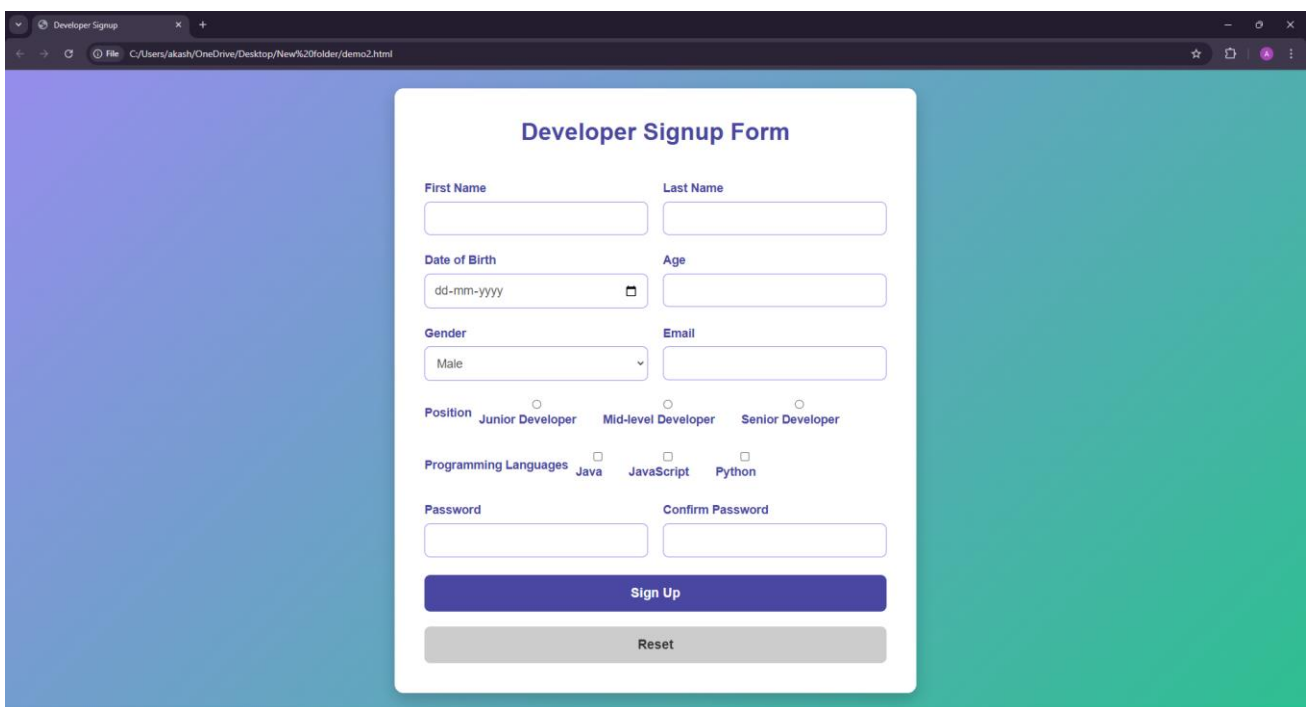
</div>

</form>

</div>

</body>

</html>
```

**OUTPUT:**A screenshot of a web browser displaying a 'Developer Signup Form'. The form is centered on a page with a blue-to-green gradient background. The form itself is white with a thin border. It contains several input fields: 'First Name', 'Last Name', 'Date of Birth' (with a calendar icon), 'Age', 'Gender' (a dropdown menu showing 'Male'), 'Email', 'Position' (radio buttons for 'Junior Developer', 'Mid-level Developer', and 'Senior Developer'), 'Programming Languages' (checkboxes for 'Java', 'JavaScript', and 'Python'), 'Password', and 'Confirm Password'. At the bottom of the form are two buttons: a blue 'Sign Up' button and a grey 'Reset' button. The browser's address bar shows the file path 'C:/Users/akash/OneDrive/Desktop/New%20folder/demo2.html'.

**3. Design a HTML page which displays your course registration page details of Winter 2024-25 as it is available in VTOP.**

**CODE:**

```
<!DOCTYPE html>

<html lang="en">

<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Course Registration - Winter 2024-25</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f0f0f0;
  }
  header {
    background-color: #4893e4;
    color: #fff;
    padding: 10px;
    text-align: center;
  }
  footer {
    background-color: #4893e4;
    color: #fff;
    text-align: center;
    padding: 5px;
    position: fixed;
    bottom: 0;
    width: 100%;
  }
  table {
    width: 100%;
    border-collapse: collapse;
    padding: 10px;
  }
```

```
th, td {
    text-align: center;
    padding: 10px;
    border: 1px solid #ccc;
}

thead th {
    background-color: #333;
    color: white;
}

.col1 { background-color: #FFDDC1; }
.col2 { background-color: #FFABAB; }
.col3 { background-color: #FFC3A0; }
.col4 { background-color: #D5AAFF; }
.col5 { background-color: #85E3FF; }
.col6 { background-color: #B9FBC0; }
.col7 { background-color: #FFD6E8; }
.col8 { background-color: #FF9CEE; }
.col9 { background-color: #D5AAFF; }
.col10 { background-color: #FFABAB; }
.col11 { background-color: #FFC3A0; }
.col12 { background-color: #85E3FF; }

</style>
</head>
<body>
    <header>
        <h2>Course Registration - Winter 2024-25</h2>
    </header>
    <br>
    <main>
        <table>
```



<thead>											
<tr>											
<th class="col1">Sl.No.</th>											
<th class="col2">Class Group</th>											
<th class="col3">Course</th>											
<th class="col4">LT P J C</th>											
<th class="col5">Category</th>											
<th class="col6">Course Option</th>											
<th class="col7">Class Id</th>											
<th class="col8">Slot/Venue</th>											
<th class="col9">Faculty Details</th>											
<th class="col10">Registered/Updated Date & Time</th>											
<th class="col11">Attendance Date/Type</th>											
<th class="col12">Status & Ref. No.</th>											
</tr>											
</thead>											
<tbody>											
<tr>											
<td class="col1">1</td>											
<td class="col2">General (Semester)</td>											
<td class="col3">PMCA504L - Software Engineering (Theory Only)</td>											
<td class="col4">3 0 0 3 3.0</td>											
<td class="col5">Discipline Core</td>											
<td class="col6">Regular</td>											
<td class="col7">VL2024250503324</td>											
<td class="col8">A2+TA2 - SJTG04</td>											
<td class="col9">GITANJALI J</td>											
<td class="col10">09-Nov-2024 09:14</td>											
<td class="col11">10-Nov-2024 - Manual</td>											

<td class="col12">Registered and Approved</td>											
</tr>											
<tr>											
<td class="col1">2</td>											
<td class="col2">General (Semester)</td>											
<td class="col3">PMCA507L - Machine Learning (Theory Only)</td>											
<td class="col4">3 0 0 3 3.0</td>											
<td class="col5">Discipline Core</td>											
<td class="col6">Regular</td>											
<td class="col7">VL2024250503334</td>											
<td class="col8">B2+TB2 - SJT825</td>											
<td class="col9">PARIMALA M</td>											
<td class="col10">09-Nov-2024 09:13</td>											
<td class="col11">10-Nov-2024 - Manual</td>											
<td class="col12">Registered and Approved</td>											
</tr>											
<tr>											
<td class="col1">3</td>											
<td class="col2">General (Semester)</td>											
<td class="col3">PMCA507P - Machine Learning Lab</td>											
<td class="col4">0 0 2 2 1.0</td>											
<td class="col5">Discipline Core</td>											
<td class="col6">Regular</td>											
<td class="col7">VL2024250503338</td>											
<td class="col8">L27+L28 - SJT217</td>											
<td class="col9">PARIMALA M</td>											
<td class="col10">09-Nov-2024 09:13</td>											
<td class="col11">10-Nov-2024 - Manual</td>											
<td class="col12">Registered and Approved</td>											
</tr>											

```
<tr>
  <td class="col1">4</td>
  <td class="col2">General (Semester)</td>
  <td class="col3">PMCA601L - Full Stack Web Development (Theory Only)</td>
  <td class="col4">3 0 0 3 3.0</td>
  <td class="col5">Discipline Elective</td>
  <td class="col6">Regular</td>
  <td class="col7">VL2024250503351</td>
  <td class="col8">C2+TC2 - SJT825</td>
  <td class="col9">SUMANGALI K</td>
  <td class="col10">13-Dec-2024 20:26</td>
  <td class="col11">14-Dec-2024 - Manual</td>
  <td class="col12">Registered and Approved</td>
</tr>
```

```
<tr>
  <td class="col1">5</td>
  <td class="col2">General (Semester)</td>
  <td class="col3">PMCA601P - Full Stack Web Development Lab</td>
  <td class="col4">0 0 2 2 1.0</td>
  <td class="col5">Discipline Elective</td>
  <td class="col6">Regular</td>
  <td class="col7">VL2024250503356</td>
  <td class="col8">L3+L4 - SJT217</td>
  <td class="col9">SUMANGALI K</td>
  <td class="col10">13-Dec-2024 20:26</td>
  <td class="col11">14-Dec-2024 - Manual</td>
  <td class="col12">Registered and Approved</td>
</tr>
```

```
</tr>
```

```
<tr>
```

```
  <td class="col1">6</td>
```

<td class="col2">General (Semester)</td>
<td class="col3">PMCA602L - Python Programming (Theory Only)</td>
<td class="col4">2 0 0 2 2.0</td>
<td class="col5">Discipline Elective</td>
<td class="col6">Regular</td>
<td class="col7">VL2024250503366</td>
<td class="col8">D2 - SJTG08</td>
<td class="col9">SELVA RANI B</td>
<td class="col10">09-Nov-2024 09:27</td>
<td class="col11">10-Nov-2024 - Biometric</td>
<td class="col12">Registered and Approved</td>
</tr>
<tr>
<td class="col1">7</td>
<td class="col2">General (Semester)</td>
<td class="col3">PMCA602P - Python Programming Lab</td>
<td class="col4">0 0 2 0 1.0</td>
<td class="col5">Discipline Elective</td>
<td class="col6">Regular</td>
<td class="col7">VL2024250503373</td>
<td class="col8">L15+L16 - SJT217</td>
<td class="col9">SELVA RANI B</td>
<td class="col10">09-Nov-2024 09:27</td>
<td class="col11">10-Nov-2024 - Biometric</td>
<td class="col12">Registered and Approved</td>
</tr>
<tr>
<td class="col1">8</td>
<td class="col2">General (Semester)</td>
<td class="col3">PMCA605L - Cyber Security (Theory Only)</td>

<td class="col4">3 0 0 3 3.0</td>	<td class="col5">Discipline Core</td>	<td class="col6">Regular</td>	<td class="col7">VL2024250503392</td>	<td class="col8">F2+TF2 - SJT223</td>	<td class="col9">NADESH R.K</td>	<td class="col10">09-Nov-2024 09:08</td>	<td class="col11">10-Nov-2024 - Manual</td>	<td class="col12">Registered and Approved</td>				
</tr>												
<tr>												
<td class="col1">9</td>	<td class="col2">General (Semester)</td>	<td class="col3">PMCA614L - Software Testing (Theory Only)</td>	<td class="col4">2 0 0 2 2.0</td>	<td class="col5">Discipline Core</td>	<td class="col6">Regular</td>	<td class="col7">VL2024250503423</td>	<td class="col8">E2 - SJT221</td>	<td class="col9">ARIVUSELVAN K</td>	<td class="col10">09-Nov-2024 09:15</td>	<td class="col11">10-Nov-2024 - Manual</td>	<td class="col12">Registered and Approved</td>	
</tr>												
<tr>												
<td class="col1">10</td>	<td class="col2">General (Semester)</td>	<td class="col3">PMCA614P - Software Testing Lab</td>	<td class="col4">0 0 2 0 1.0</td>	<td class="col5">Discipline Core</td>								

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<td class="col8">G2+TG2 - SJT103</td>

<td class="col9">ETHNUS (APT)</td>

<td class="col10">09-Nov-2024 09:11</td>

<td class="col11">10-Nov-2024 - Manual</td>

<td class="col12">Registered and Approved</td>

</tr>

</tbody>

</table>

</main>

<footer>

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</footer>

</body>

</html>

```

**OUTPUT:**

Course Registration - Winter 2024-25											
Sl. No.	Class Group	Course	LTP J C	Category	Course Option	Class Id	Slot/Venue	Faculty Details	Registered/Updated Date & Time	Attendance Date/Type	Status & Ref. No.
1	General (Semester)	PMCA504L - Software Engineering (Theory Only)	3 0 0 3 3.0	Discipline Core	Regular	VL2024250503324	A2+TA2 - SJTG04	GITANJALI J	09-Nov-2024 09:14	10-Nov-2024 - Manual	Registered and Approved
2	General (Semester)	PMCA507L - Machine Learning (Theory Only)	3 0 0 3 3.0	Discipline Core	Regular	VL2024250503334	B2+TB2 - SJT825	PARIMALA M	09-Nov-2024 09:13	10-Nov-2024 - Manual	Registered and Approved
3	General (Semester)	PMCA507P - Machine Learning Lab	0 0 2 2 1.0	Discipline Core	Regular	VL2024250503338	L27+L28 - SJT217	PARIMALA M	09-Nov-2024 09:13	10-Nov-2024 - Manual	Registered and Approved
4	General (Semester)	PMCA601L - Full Stack Web Development (Theory Only)	3 0 0 3 3.0	Discipline Elective	Regular	VL2024250503351	C2+TC2 - SJT825	SUMANGALI K	13-Dec-2024 20:26	14-Dec-2024 - Manual	Registered and Approved
5	General (Semester)	PMCA601P - Full Stack Web Development Lab	0 0 2 2 1.0	Discipline Elective	Regular	VL2024250503356	L3+L4 - SJT217	SUMANGALI K	13-Dec-2024 20:26	14-Dec-2024 - Manual	Registered and Approved
6	General (Semester)	PMCA602L - Python Programming (Theory Only)	2 0 0 2 2.0	Discipline Elective	Regular	VL2024250503366	D2 - SJTG08	SELVA RANI B	09-Nov-2024 09:27	10-Nov-2024 - Biometric	Registered and Approved
7	General (Semester)	PMCA602P - Python Programming Lab	0 0 2 0 1.0	Discipline Elective	Regular	VL2024250503373	L15+L16 - SJT217	SELVA RANI B	09-Nov-2024 09:27	10-Nov-2024 - Biometric	Registered and Approved
8	General (Semester)	PMCA605L - Cyber Security (Theory Only)	3 0 0 3 3.0	Discipline Core	Regular	VL2024250503392	F2+TF2 - SJT223	NADESH R K	09-Nov-2024 09:08	10-Nov-2024 - Manual	Registered and Approved
9	General (Semester)	PMCA614L - Software Testing (Theory Only)	2 0 0 2 2.0	Discipline Core	Regular	VL2024250503423	E2 - SJT221	ARIVUSELVAN K	09-Nov-2024 09:15	10-Nov-2024 - Manual	Registered and Approved
10	General (Semester)	PMCA614P - Software Testing Lab	0 0 2 0 1.0	Discipline Core	Regular	VL2024250503429	L11+L12 - SJT122	ARIVUSELVAN K	09-Nov-2024 09:15	10-Nov-2024 - Manual	Registered and Approved
11	General (Semester)	PSTS02P - Quantitative Skills Practice	3 0 0 1 1.5	Skill Enhancement	Regular	VL2024250503073	G1+TG1 - PRP534	SIXPHRASE (APT)	09-Nov-2024 09:03	10-Nov-2024 - Manual	Registered and Approved
12	General (Semester)	PSTS601L - Advanced Competitive Coding	3 0 0 3 3.0	Open Elective	Regular	VL2024250500126	G2+TG2 - SJT103	ETHNUS (APT)	09-Nov-2024 09:11	10-Nov-2024 - Manual	Registered and Approved

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4. Write the HTML and CSS code to the following layout in flex design with following specifications.

- a) All heading text color must be in white with font size as 15px.
- b) Choose different background color for each component in the layout.



**CODE:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Grid Layout</title>
  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }
  </style>
</head>
<body>
  <div>
    <div>Header</div>
    <div>
      <div>Hero</div>
      <div>
        <div>Main Content</div>
        <div>Extra Content</div>
      </div>
      <div>Sidebar</div>
    </div>
    <div>
      <div>Related Images</div>
      <div>Related Posts</div>
    </div>
    <div>Footer</div>
  </div>
</body>
</html>
```



```
body {  
  font-family: Arial, sans-serif;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  min-height: 100vh;  
  background-color: #f4f4f4;  
}  
  
.wrapper {  
  display: grid;  
  grid-template-areas:  
    "container1"  
    "container2"  
    "container3";  
  grid-template-rows: auto auto auto;  
  gap: 10px;  
  width: 90%;  
  max-width: 1200px;  
}  
  
.container1 {  
  display: grid;  
  grid-template-areas:  
    "header header"  
    "hero main-content"  
    "sidebar extra-content";  
  grid-template-rows: 50px 200px 200px;  
  grid-template-columns: 1fr 2fr;  
  gap: 10px; /* Original gap */  
  width: 100%;  
}
```

```
.container2 {  
    display: grid;  
    grid-template-areas:  
        "related-images related-posts";  
    grid-template-rows: 150px;  
    grid-template-columns: 3fr 1fr;  
    gap: 10px; /* Original gap */  
    width: 100%;  
}  
  
.container3 {  
    display: grid;  
    grid-template-areas:  
        "footer footer";  
    grid-template-rows: 50px;  
    grid-template-columns: 1fr 2fr;  
    gap: 10px; /* Original gap */  
    width: 100%;  
}  
  
header {  
    grid-area: header;  
    background-color: #4CAF50;  
    color: white;  
    text-align: center;  
    line-height: 50px;  
  
.hero {  
    grid-area: hero;  
    background-color: #2196F3;  
    color: white;  
    text-align: center;
```

```
padding: 20px;
}
.main-content {
  grid-area: main-content;
  background-color: #FF9800;
  color: white;
  padding: 20px;
}
.sidebar {
  grid-area: sidebar;
  background-color: #9C27B0;
  color: white;
  padding: 20px;
}
.extra-content {
  grid-area: extra-content;
  background-color: #795548;
  color: white;
  padding: 20px;
}
.related-images {
  grid-area: related-images;
  background-color: #FFC107;
  color: white;
  padding: 20px;
}
.related-posts {
  grid-area: related-posts;
  background-color: #3F51B5;
  color: white;
```

```
padding: 20px;
}
footer {
  grid-area: footer;
  background-color: #F44336;
  color: white;
  text-align: center;
  line-height: 50px;
}
</style>
</head>

<body>
  <div class="wrapper">
    <div class="container1">
      <header class="header">Header</header>
      <div class="hero">Hero</div>
      <div class="main-content">Main Content</div>
      <div class="sidebar">Sidebar</div>
      <div class="extra-content">Extra Content</div>
    </div>

    <div class="container2">
      <div class="related-images">Related Images</div>
      <div class="related-posts">Related Posts</div>
    </div>

    <div class="container3">
      <footer class="footer">Footer</footer>
    </div>
```

```
</div>
```

```
</body>
```

```
</html>
```

**OUTPUT:**