

# WEB TECHNOLOGIES – PRACTICAL ASSIGNMENT

ROLL NO: 24/SCA/BCA(AI&ML)/048

CLASS – BCA(AI&ML) 1B

NAME – Pawan Kumar

GROUP – 2<sup>nd</sup>

Q1. Create a simple HTML page using basic tags.

Ans:-

```
<!DOCTYPE html>
<html>
<head>
  <title>Simple HTML Page</title>
</head>
<body>
  <h1>Welcome to My First Web Page</h1>
  <p>This is a simple HTML page using basic tags.</p>
</body>
</html>
```

OUTPUT:-



## Welcome to My First Web Page

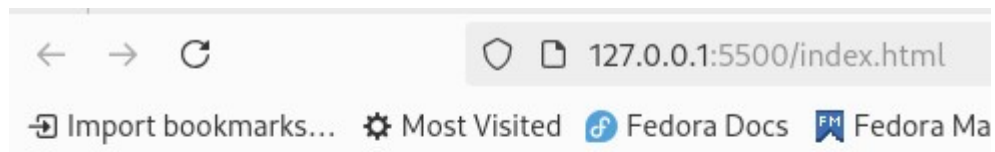
This is a simple HTML page using basic tags.

Q2. Create a web page that displays your name to the screen.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Display Name</title>
</head>
<body>
  <h1>Pawan Kumar</h1>
</body>
</html>
```

OUTPUT:-



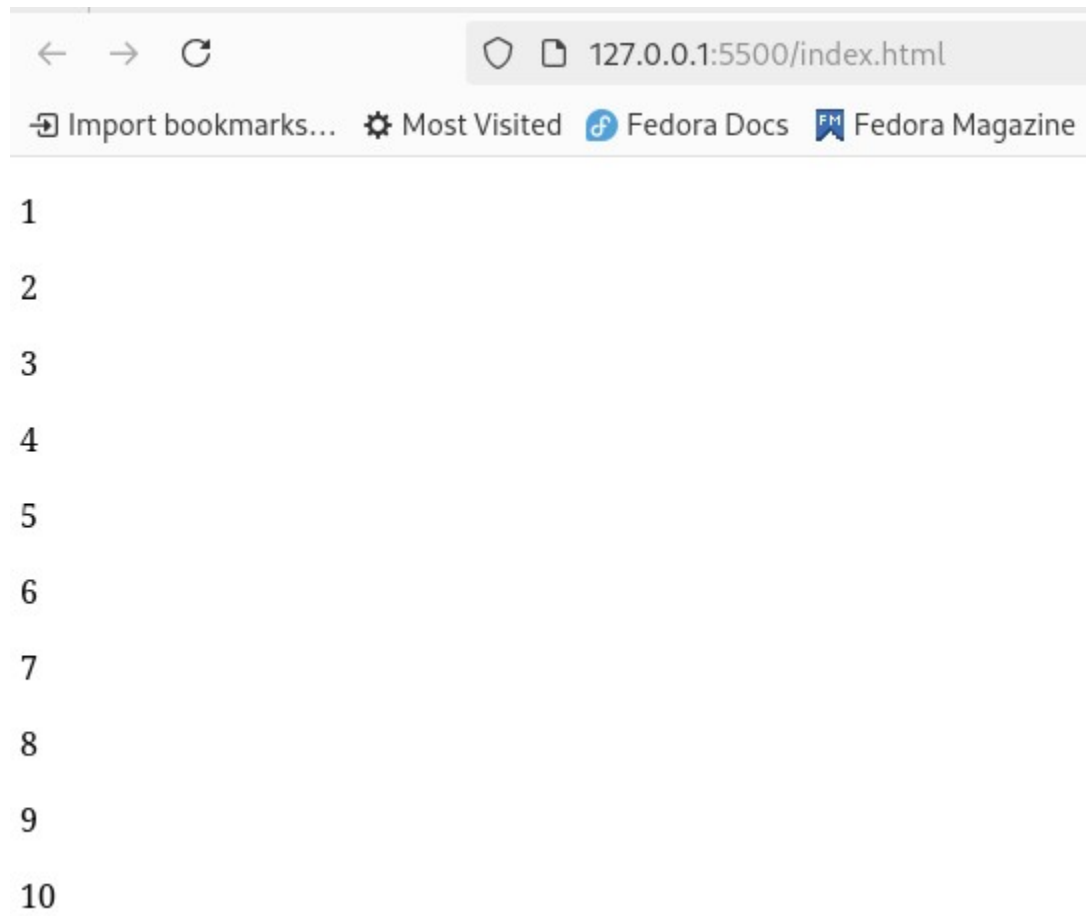
# Pawan Kumar

Q3. Create a web page and show the output from 1 to 10 in separate lines.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Numbers 1 to 10</title>
</head>
<body>
  <p>1</p>
  <p>2</p>
  <p>3</p>
  <p>4</p>
  <p>5</p>
  <p>6</p>
  <p>7</p>
  <p>8</p>
  <p>9</p>
  <p>10</p>
</body>
</html>
```

OUTPUT:

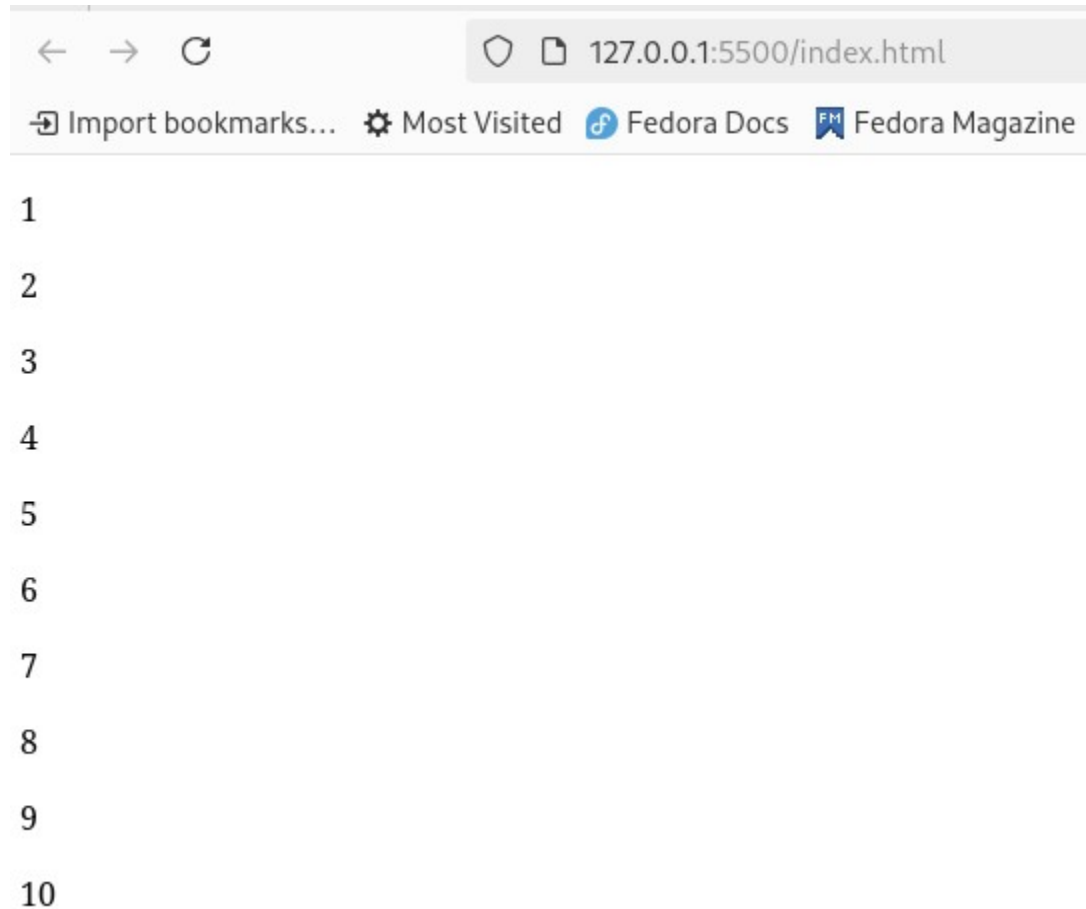


Q4. Create a web page and show the output from 1 to 10 in separate lines, each number being in a different color.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Numbers with Colors</title>
</head>
<body>
  <p style="color:red;">1</p>
  <p style="color:green;">2</p>
  <p style="color:blue;">3</p>
  <p style="color:orange;">4</p>
  <p style="color:purple;">5</p>
  <p style="color:yellow;">6</p>
  <p style="color:brown;">7</p>
  <p style="color:pink;">8</p>
  <p style="color:gray;">9</p>
  <p style="color:teal;">10</p>
</body>
</html>
```

OUTPUT:-

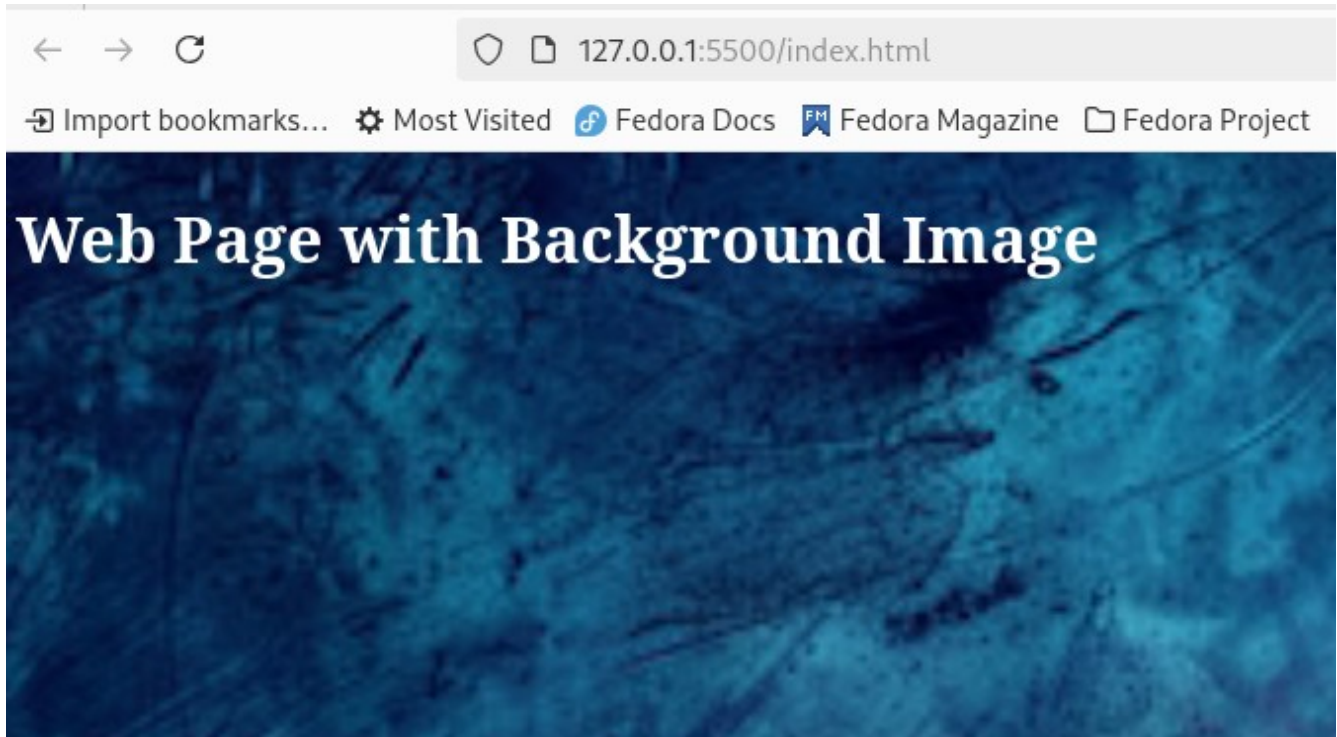


Q5. How do I make a picture as a background on my web pages?

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Background Image</title>
  <style>
    body {
      background-image:
url('https://img.freepik.com/premium-photo/grainy-gradient-
background-red-white-blue-colors-with-soft-faded-
watercolor-border-texture_927344-24167.jpg');
      background-size: cover;
      color: white;
    }
  </style>
</head>
<body>
  <h1>Web Page with Background Image</h1>
</body>
</html>
```

OUTPUT:-

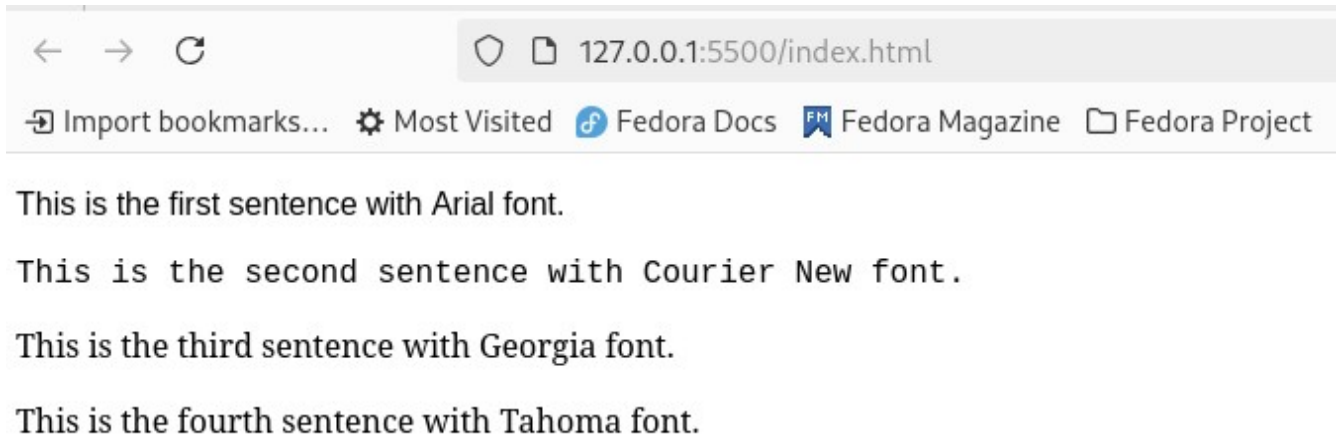


Q6. Create a web page to print a paragraph with 4-5 sentences, each sentence shall have a different font.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Paragraph with Different Fonts</title>
  <style>
    .font1 { font-family: Arial; }
    .font2 { font-family: 'Courier New'; }
    .font3 { font-family: Georgia; }
    .font4 { font-family: Tahoma; }
  </style>
</head>
<body>
  <p class="font1">This is the first sentence with Arial
font.</p>
  <p class="font2">This is the second sentence with Courier New
font.</p>
  <p class="font3">This is the third sentence with Georgia
font.</p>
  <p class="font4">This is the fourth sentence with Tahoma
font.</p>
</body>
</html>
```

## OUTPUT:-

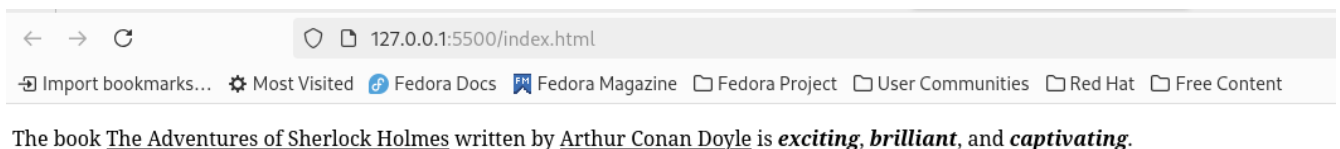


Q7. Write HTML code to print a paragraph that is a description of a book, it shall include the title of the book, its author's name; the name and title should be underlined and all adjectives shall be bold and italic.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Book Description</title>
</head>
<body>
  <p>The book <u>The Adventures of Sherlock Holmes</u>
written by <u>Arthur Conan Doyle</u> is <b><i>exciting</i></b>,
<b><i>brilliant</i></b>, and <b><i>captivating</i></b>.</p>
</body>
</html>
```

## OUTPUT:-

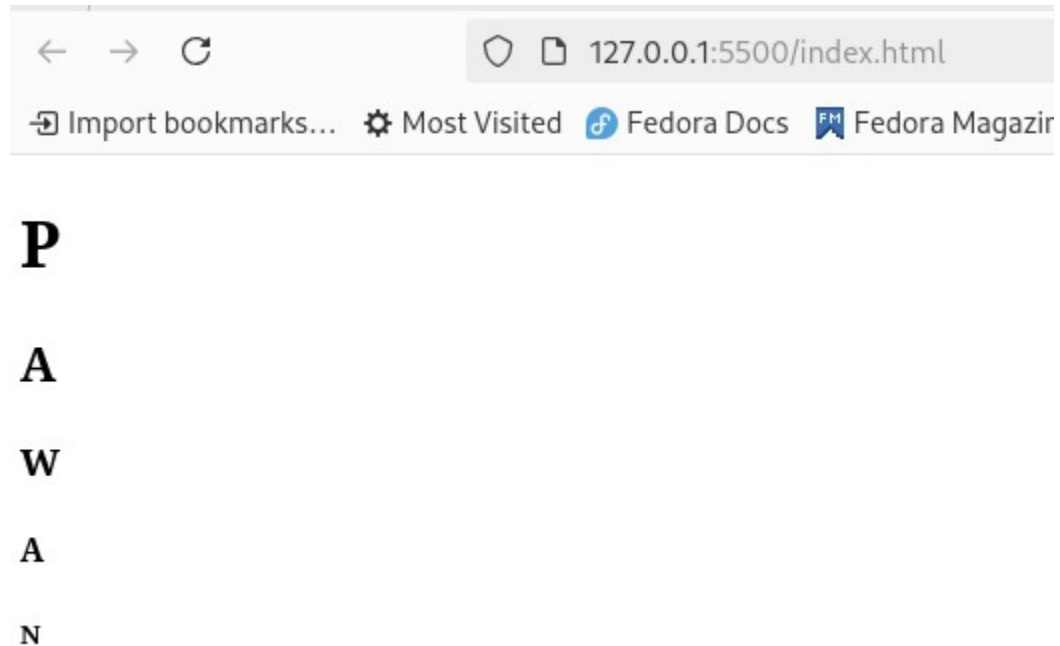


Q8. Write HTML code to print your name using Heading tag, every letter shall be of different heading size.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>My Name in Heading Sizes</title>
</head>
<body>
  <h1>P</h1>
  <h2>A</h2>
  <h3>W</h3>
  <h4>A</h4>
  <h5>N</h5>
</body>
</html>
```

OUTPUT:-

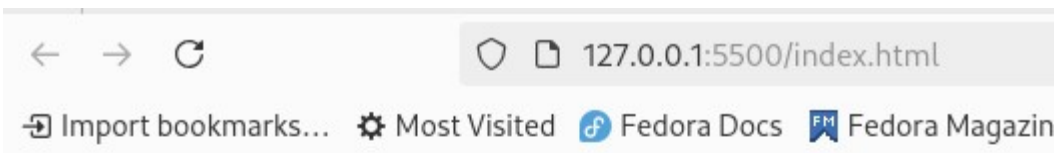


Q9. Write HTML code to print the sequence of numbers 1-20. Each number shall be in a different line with number 2 next to it as a subscript, an equal sign, and the result.

Ans. 

```
<!DOCTYPE html>
<html>
<head>
  <title>Number Sequence</title>
</head>
<body>
  <p>1<sub>2</sub> = 2</p>
  <p>2<sub>2</sub> = 4</p>
  <p>3<sub>2</sub> = 6</p>
  <p>4<sub>2</sub> = 8</p>
  <p>5<sub>2</sub> = 10</p>
  <p>6<sub>2</sub> = 12</p>
  <p>7<sub>2</sub> = 14</p>
  <p>8<sub>2</sub> = 16</p>
  <p>9<sub>2</sub> = 18</p>
  <p>10<sub>2</sub> = 20</p>
</body>
</html>
```

OUTPUT:-



$$1_2 = 2$$

$$2_2 = 4$$

$$3_2 = 6$$

$$4_2 = 8$$

$$5_2 = 10$$

$$6_2 = 12$$

$$7_2 = 14$$

$$8_2 = 16$$

$$9_2 = 18$$

$$10_2 = 20$$

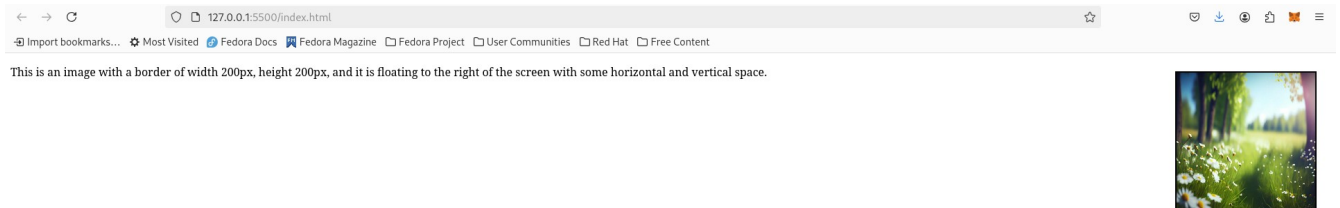


Q10. Write HTML code to display an image with a border of size width 200, height 200 pixels, leaving Hspace and Vspace of your choice with the image hanging on the right side of the screen.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Image with Border</title>
  <style>
    img {
      border: 2px solid black;
      width: 200px;
      height: 200px;
      float: right;
      margin: 10px 20px;
    }
  </style>
</head>
<body>
  
  <p>This is an image with a border of width 200px, height
200px, and it is floating to the right of the screen with some
horizontal and vertical space.</p>
</body>
</html>
```

OUTPUT:-



Q11. Write HTML code to create a web page with a heading. The heading shall be displayed at the top-center of the page, and the image shall be at the center, just below the heading.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Centered Heading and Image</title>
  <style>
    h1 {
      text-align: center;
    }
    img {
      display: block;
      margin: 0 auto;
    }
  </style>
</head>
<body>
  <h1>Welcome to My Web Page</h1>
  
</body>
</html>
```

object User Communities Red Hat Free Content

# Welcome to My Web Page



Q12. Write HTML code using Multimedia tags.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Multimedia Example</title>
</head>
<body>
  <h2>Multimedia Content</h2>

  <!-- Audio Tag -->
  <h3>Audio</h3>
  <audio controls>
    <source src="audio.mp3" type="audio/mpeg">
    Your browser does not support the audio element.
  </audio>

  <!-- Video Tag -->
  <h3>Video</h3>
  <video width="320" height="240" controls>
    <source src="video.mp4" type="video/mp4">
    Your browser does not support the video tag.
  </video>

  <!-- Embed Tag -->
  <h3>Embedded Video</h3>
  <embed src="https://www.youtube.com/embed/example"
width="560" height="315">
</body>
</html>
```

OUTPUT:-



127.0.0.1:5500/index.html

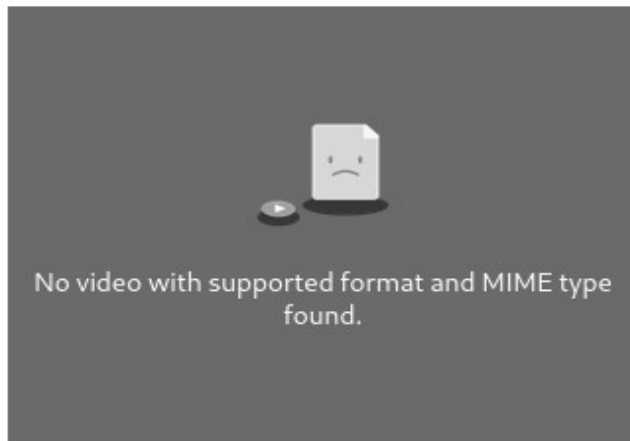
Import bookmarks... Most Visited Fedora Docs Fedora Magazine Fedora Project

## Multimedia Content

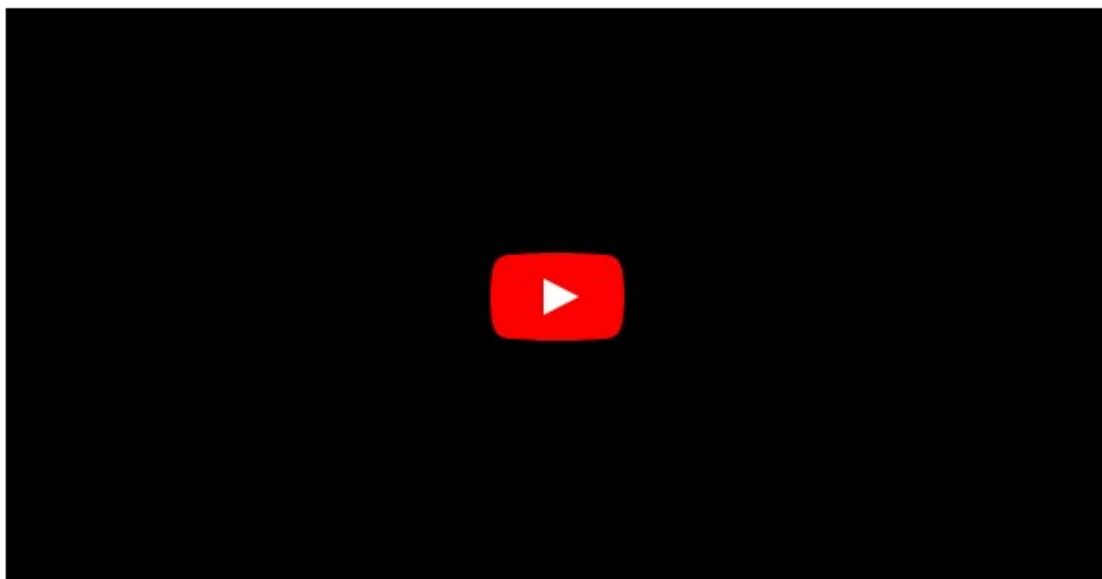
### Audio



### Video



### Embedded Video

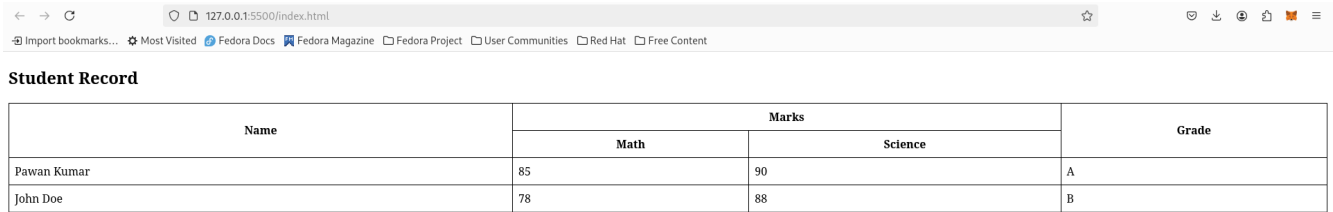


Q13. Create a Table using Rowspan and Colspan taking example of student record.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Student Record Table</title>
  <style>
    table {
      border-collapse: collapse;
      width: 100%;
    }
    table, th, td {
      border: 1px solid black;
      padding: 8px;
    }
  </style>
</head>
<body>
  <h2>Student Record</h2>
  <table>
    <tr>
      <th rowspan="2">Name</th>
      <th colspan="2">Marks</th>
      <th rowspan="2">Grade</th>
    </tr>
    <tr>
      <th>Math</th>
      <th>Science</th>
    </tr>
    <tr>
      <td>Pawan Kumar</td>
      <td>85</td>
      <td>90</td>
      <td>A</td>
    </tr>
    <tr>
      <td>John Doe</td>
      <td>78</td>
      <td>88</td>
      <td>B</td>
    </tr>
  </table>
</body>
</html>
```

## OUTPUT:-



A screenshot of a web browser displaying a table titled "Student Record". The table has four columns: "Name", "Math", "Science", and "Grade". It contains two rows of data: Pawan Kumar with Math 85, Science 90, and Grade A; and John Doe with Math 78, Science 88, and Grade B.

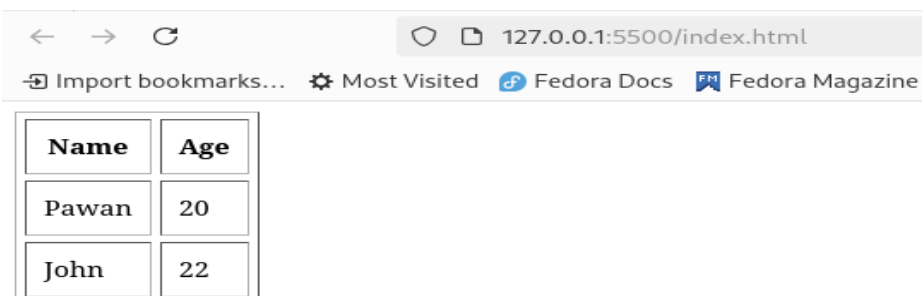
Name	Marks		Grade
	Math	Science	
Pawan Kumar	85	90	A
John Doe	78	88	B

Q14. Write HTML code using `<table>` tag and cellpadding and cellspacing attributes.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Table with Cellpadding and Cellspacing</title>
</head>
<body>
  <table border="1" cellpadding="10" cellspacing="5">
    <tr>
      <th>Name</th>
      <th>Age</th>
    </tr>
    <tr>
      <td>Pawan</td>
      <td>20</td>
    </tr>
    <tr>
      <td>John</td>
      <td>22</td>
    </tr>
  </table>
</body>
</html>
```

## OUTPUT:-



A screenshot of a web browser displaying the rendered HTML table. The table has two columns: "Name" and "Age". It contains two rows of data: Pawan with Age 20, and John with Age 22.

Name	Age
Pawan	20
John	22

Q15. Create unordered, ordered, and definition lists taking example of your subjects in MCA 1st, 2nd, and 3rd Semester.

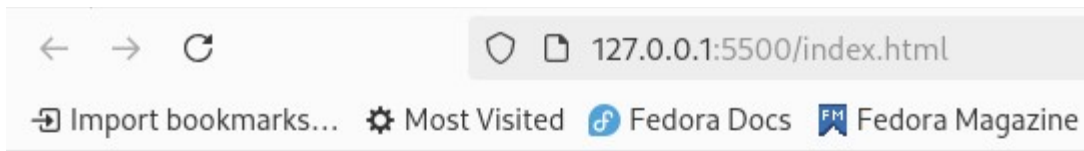
Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Lists of Subjects</title>
</head>
<body>
  <h3>Unordered List - 1st Semester Subjects</h3>
  <ul>
    <li>Mathematics</li>
    <li>Programming in C</li>
    <li>Database Management Systems</li>
  </ul>

  <h3>Ordered List - 2nd Semester Subjects</h3>
  <ol>
    <li>Data Structures</li>
    <li>Operating Systems</li>
    <li>Database Management Systems</li>
  </ol>

  <h3>Definition List - 3rd Semester Subjects</h3>
  <dl>
    <dt>Artificial Intelligence</dt>
    <dd>Study of intelligent agents.</dd>
    <dt>Web Development</dt>
    <dd>Learning to build websites.</dd>
  </dl>
</body>
</html>
```

OUTPUT:-



## Unordered List - 1st Semester Subjects

- Mathematics
- Programming in C
- Database Management Systems

## Ordered List - 2nd Semester Subjects

1. Data Structures
2. Operating Systems
3. Database Management Systems

## Definition List - 3rd Semester Subjects

Artificial Intelligence

Study of intelligent agents.

Web Development

Learning to build websites.

Q16. Write HTML code using <frameset> and <frame> tag with all its attributes.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Frameset Example</title>
</head>
<frameset cols="50%,50%">
  <frame src="left.html" name="leftFrame" frameborder="1"
scrolling="auto">
  <frame src="right.html" name="rightFrame" frameborder="1"
scrolling="auto">
</frameset>
</html>
```



## OUTPUT:-



Q17. Write HTML code to design a form in HTML using controls and buttons such as Textbox, Textarea, Password, Submit button, Browse button, Drop-down menu.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Form Example</title>
</head>
<body>
  <form>
    <label for="name">Name:</label>
    <input type="text" id="name" name="name"><br><br>

    <label for="password">Password:</label>
    <input type="password" id="password"
name="password"><br><br>

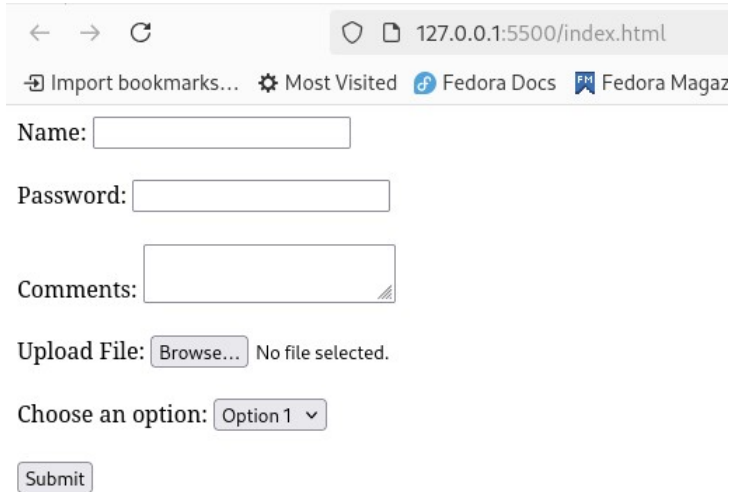
    <label for="comments">Comments:</label>
    <textarea id="comments"
name="comments"></textarea><br><br>

    <label for="file">Upload File:</label>
    <input type="file" id="file" name="file"><br><br>

    <label for="options">Choose an option:</label>
    <select id="options" name="options">
      <option value="option1">Option 1</option>
      <option value="option2">Option 2</option>
    </select><br><br>

    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

## OUTPUT:-



A screenshot of a web browser displaying a registration form. The browser's address bar shows '127.0.0.1:5500/index.html'. The form includes fields for 'Name:', 'Password:', and 'Comments:'. Below these is an 'Upload File:' section with a 'Browse...' button and the text 'No file selected.'. There is also a 'Choose an option:' dropdown menu currently showing 'Option 1'. At the bottom of the form is a 'Submit' button.

Q18. Write HTML code to design a Registration Form in HTML.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Registration Form</title>
</head>
<body>
  <h2>Registration Form</h2>
  <form>
    <label for="fname">First Name:</label>
    <input type="text" id="fname" name="fname"><br><br>

    <label for="lname">Last Name:</label>
    <input type="text" id="lname" name="lname"><br><br>

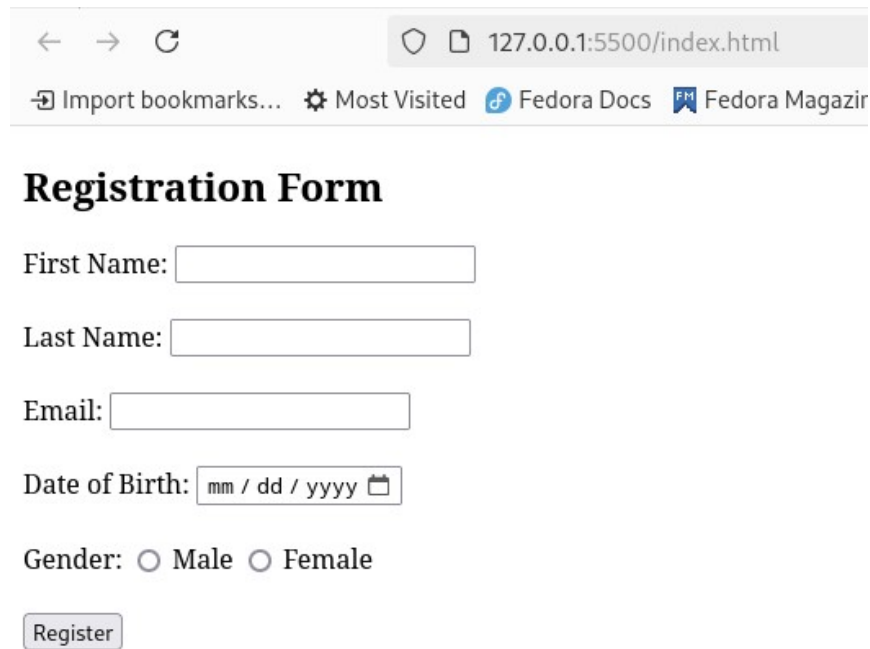
    <label for="email">Email:</label>
    <input type="email" id="email" name="email"><br><br>

    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob"><br><br>

    <label for="gender">Gender:</label>
    <input type="radio" id="male" name="gender" value="male">
Male
    <input type="radio" id="female" name="gender" value="female">
Female<br><br>

    <input type="submit" value="Register">
  </form>
</body>
</html>
```

OUTPUT:-



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/index.html". The browser's bookmark bar includes "Import bookmarks...", "Most Visited", "Fedora Docs", and "Fedora Magazir". The main content area features a "Registration Form" with the following fields: "First Name:" with a text input, "Last Name:" with a text input, "Email:" with a text input, "Date of Birth:" with a date picker showing "mm / dd / yyyy", and "Gender:" with radio buttons for "Male" and "Female". A "Register" button is located at the bottom of the form.

Q19. Write HTML code to design a student admission form in HTML.

Ans.

```
<!DOCTYPE html>
<html>
<head>
  <title>Student Admission Form</title>
</head>
<body>
  <h2>Student Admission Form</h2>
  <form>
    <label for="studentName">Student Name:</label>
    <input type="text" id="studentName" name="studentName"><br><br>

    <label for="fatherName">Father's Name:</label>
    <input type="text" id="fatherName" name="fatherName"><br><br>

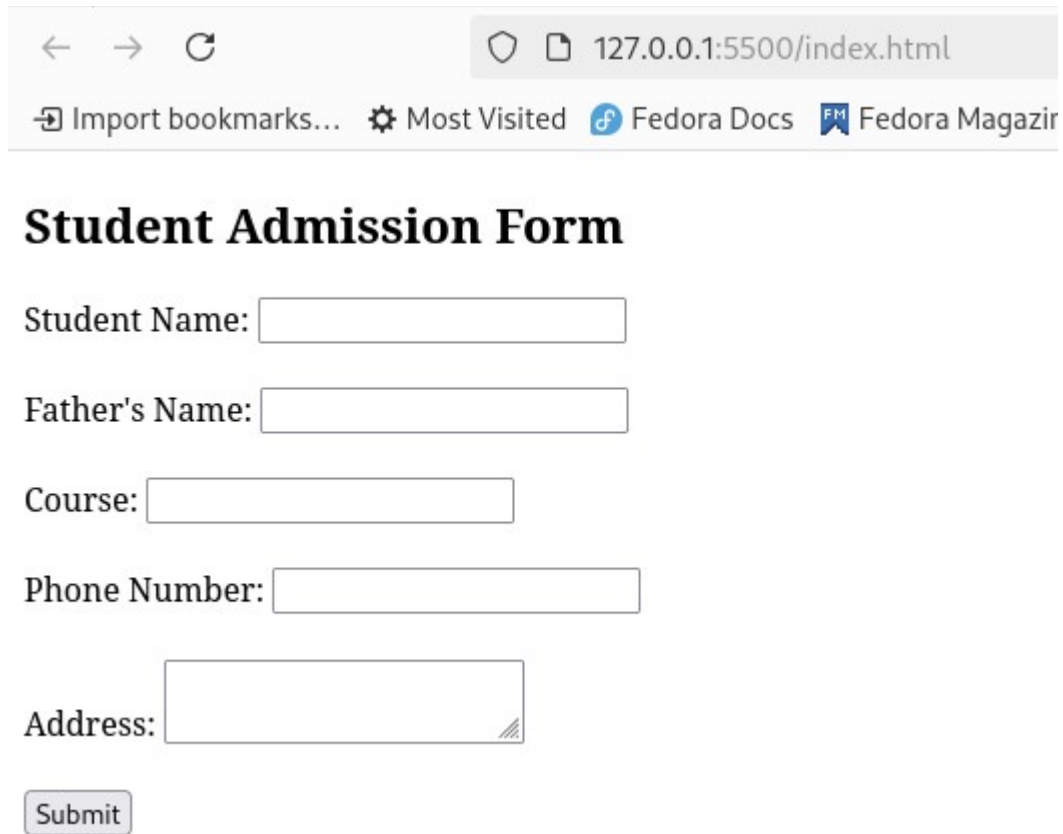
    <label for="course">Course:</label>
    <input type="text" id="course" name="course"><br><br>

    <label for="phone">Phone Number:</label>
    <input type="tel" id="phone" name="phone"><br><br>

    <label for="address">Address:</label>
    <textarea id="address" name="address"></textarea><br><br>

    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

**OUTPUT:-**



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/index.html". The browser's bookmark bar includes "Import bookmarks...", "Most Visited", "Fedora Docs", and "Fedora Magazine". The main content area features a form titled "Student Admission Form". The form contains five input fields: "Student Name:", "Father's Name:", "Course:", "Phone Number:", and "Address:". Below these fields is a "Submit" button.

**Student Admission Form**

Student Name:

Father's Name:

Course:

Phone Number:

Address:

**Q20. Create a proper home page of your own using any components and styles.**

**Ans.**

```
<!DOCTYPE html>
<html>
<head>
  <title>Pawan Kumar's Home Page</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f4f4f4;
    }
    header {
      background-color: #333;
      color: white;
      padding: 10px 0;
      text-align: center;
    }
    nav {
      margin: 20px;
      text-align: center;
    }
    nav a {
      text-decoration: none;
      margin: 0 15px;
      color: #333;
    }
    footer {
      background-color: #333;
      color: white;
      text-align: center;
      padding: 10px 0;
      position: fixed;
      bottom: 0;
      width: 100%;
    }
  </style>
</head>
<body>
  <header>
    <h1>Pawan Kumar's Home Page</h1>
  </header>

  <nav>
    <a href="#about">About Me</a>
    <a href="#projects">Projects</a>
    <a href="#contact">Contact</a>
  </nav>

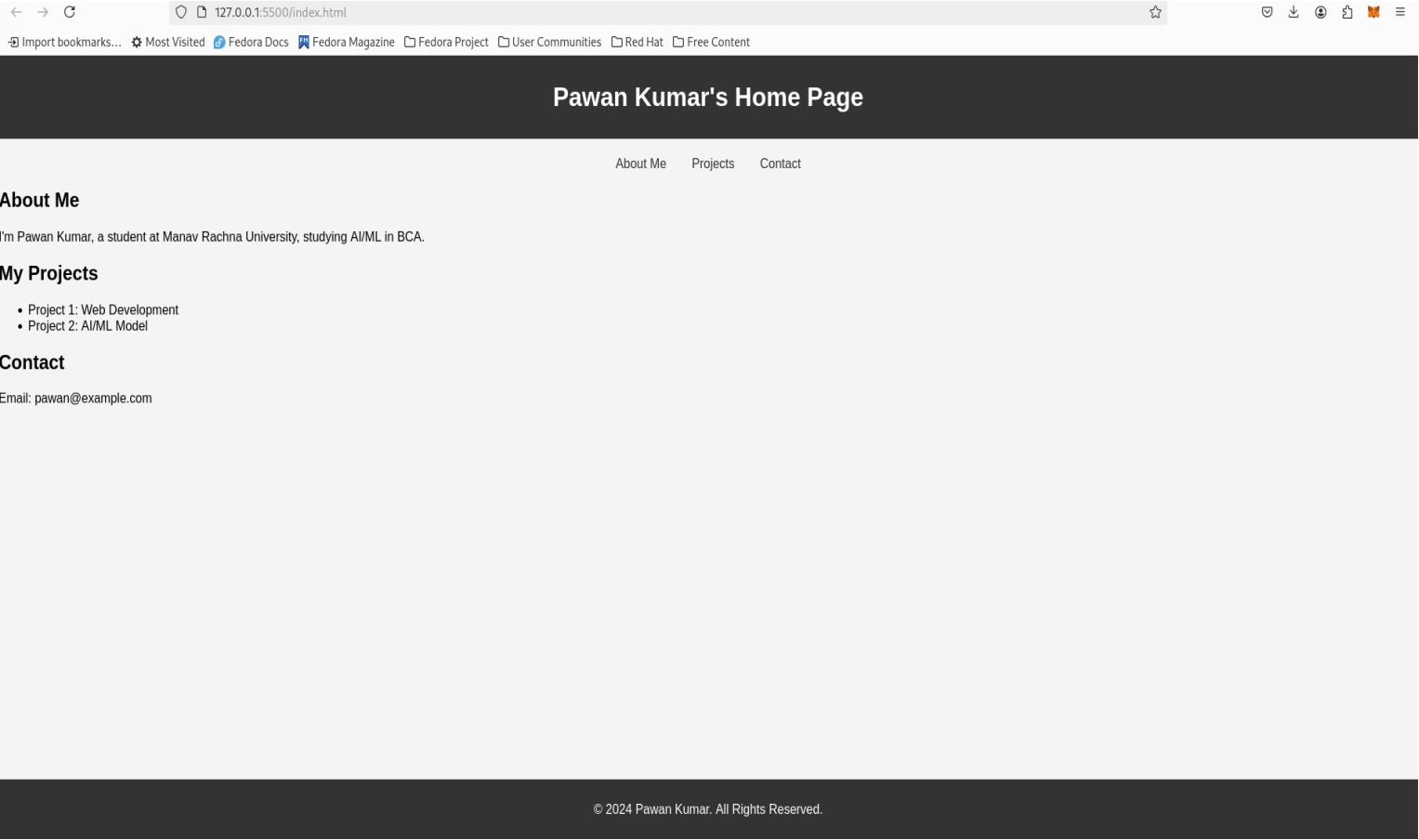
  <section id="about">
    <h2>About Me</h2>
    <p>I'm Pawan Kumar, a student at Manav Rachna University, studying AI/ML in BCA.</p>
  </section>

  <section id="projects">
    <h2>My Projects</h2>
    <ul>
      <li>Project 1: Web Development</li>
      <li>Project 2: AI/ML Model</li>
    </ul>
  </section>

  <section id="contact">
    <h2>Contact</h2>
    <p>Email: pawan@example.com</p>
  </section>

  <footer>
    <p>&copy; 2024 Pawan Kumar. All Rights Reserved.</p>
  </footer>
</body>
</html>
```

OUTPUT :-



-----END-----