Question 1 : Explain the basic structure of an HTML page. Why is it important to follow this structure?

- Compatibility:

Ensures that all web browsers can interpret and display the page correctly.

- Organization:

Keeps the code clean, structured, and easy to read or maintain.

- SEO (Search Engine Optimization):

Helps search engines understand and rank the content better.

- Accessibility:

A properly structured HTML page improves accessibility for users with disabilities who use screen readers or other assistive tools.

- Functionality:

Ensures that scripts and styles work correctly and content is loaded as expected.

Here is the basic structure of HTML :-

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Welcome</title>

</head>

<body>

    <h1 style="text-align: center;"> Importance of Education  </h1>

    <p>Education plays a vital role in the development of individuals and societies. It is more than just

        acquiring knowledge from books—it shapes a person's character, thinking, behavior, and opportunities

        in life.</p>

</body>

</html>
```

Question 2: You're building a small personal profile page. Which HTML tags will you use to highlight your name as a heading, describe yourself in a paragraph, and emphasize a key skill?

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1 style="text-align: center;"><b><ins>Personal Profile Page</ins></b> </h1>
    <h2> Name of Person</h2>
    <p>Neeraj Patel</p>
    <hr>
    <h2>  Person Description</h2>
  <ul type="circle">
 <li> I am a B.Tech student from NIT, Bhopal.</li>
 <li>I have passed my class 12th from KVS,Bhopal.</li>
 <li> I have passed my Class 10th from NVS, Bhopal.</li>
 <li>I got 99.6%ile in my JEE main first attempt.</li>
 </ul>
 <hr>
 <h2 style="text-align: left;">Key Skills</h2>
 <ul type="circle">
 <li> I have good knowledge of C++, Java, Python programming languages.</li>
 <li>I have good knowledge of Data structure & algorithm.</li>
 <li>I have also learned about Data Science which is growing job field in nowdays.</li>
 <li>I am passionate about solving Mathematics problems.</li>
 <li>I have work as Mentor in private coaching during my college time.</li>
 <li>I have taught more than 200 students during from my college time to till now in Maths. </li>
```

```html
</ul>
<hr>
<h2></h2>
</body>
</html>
```

Question 3: Look at the code below. Can you find and fix the mistake?

<!-- This is an HTML comment

<h1>Welcome to my website</h1>

- There is an error in the comment tag.
- Comment tag describe as

```
<!-- -->
```

Correct code as follows :-

<!-- This is an HTML comment-->

<h1>Welcome to my website</h1>

Question 4: You're creating a form that asks the user to enter their name, select their country from a list, and click a button to submit. Write the HTML code for this.

```html
<!DOCTYPE html>
<html>
<head>
 <title>User Information Form</title>
</head>
<body>

 <form action="/submit" method="post">
  <label for="name">Name:</label><br>
  <input type="text" id="name" name="name" required><br><br>

  <label for="country">Select your country:</label><br>
  <select id="country" name="country" required>
   <option value="">--Select a country--</option>
   <option value="USA">United States</option>
   <option value="UK">United Kingdom</option>
   <option value="Canada">Canada</option>
   <option value="Australia">Australia</option>
   <option value="India">India</option>
  </select><br><br>

  <button type="submit">Submit</button>
 </form>

</body>
</html>
```

Question 5: Write short HTML code to show your favorite fruits in a bulleted list and your top 3 programming languages in a numbered list.

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Fruits Name </title>

</head>

<body>

  <h2 style="text-align: center;">My favourite fruits </h2>

   <p>

   <ul type="bullet">

   <li>Mango</li>

   <li>Orange</li>

   <li>Banana</li>

   <li>Grapes</li>

    </ul>

   </p>

   <hr>

   <h2 style="text-align: center;">My favourite Programming Languages</h2>

 <p>

  <ol start="1">

<li>Python</li>

<li>C++</li>

<li>Java</li>

  </ol>

  </p>

  <hr>


</body>
```

</html>