19TH JAN'23 GETTING STARTED ASSIGNMENTS

Q.1) Why do we start learning a programming language with "Hello world!"?

Ans.) We start learning any programming language with "hello world!" because it is a simple program that is often used as an introduction to programming. It is a basic program that displays the message "Hello World!" on the screen.

It is simple, easy to understand , and it shows the basic structure of a program. If we start learning programming language with "Hello World!" program, then beginners can easily learn the basic of programming without getting overwhelmed by more complex concepts.

It is a small step to get familiar with the new language before going into the depth of more complex topics.

Q.2) What is the use of comments and how do you write comments in HTML?

Ans.) Comments are used for to add some notes or explanations to our code. They are ignored by the computer and do not affect how the program runs. Comments are used to help programmers to understand the code , and to explain how it works. Whenever we write comments it should be brief and accurate to that line of code. Comments are the way for programmer to communicate with themselves or other programmers about the code making it more readable and maintainable.

<!-- This is how we write comments in HTML -->

Q.3) What are the elements, tags and attributes and the difference between them.

Ans.) **Elements:** A HTML file is made of elements and these elements are responsible for creating web pages and define the content in that webpage. Elements are the building block of a HTML Document.

Eg.) a paragraph element is represented by the <p> tag and an image element is represented by the <img> tag.

Tags: Tags are used to mark the beginning and end of an element. They are represented by angle brackets < > , come in pairs.

Eg.) <p> is the opening tag for paragraph element and </p> is the closing tag.

Attributes: Attributes are used to provide additional information about an element. They are added to the opening tag of an element and are used to modify the properties or behaviour of an element.

Eg.) 'src' attribute is used to specify the source of an image element and 'href' is used to specify the link of a link element.

The difference between elements , tags and attributes is only that elements are just the building block of a HTML document, tags are used to define the element and attributes are used to provide additional information about the element.

HTML documents are made up of elements, which are defined and identified by tags.

Q.4) Briefly explain what HTML entities are.

Ans.) HTML entities are special characters or symbols that are used in HTML and XML documents. They are used to represent characters that are not found on a keyboard or that have special meaning in HTML. These entities are represented by a special code called a character entity reference, which starts with an ampersand '&' and ends with a semicolon ';'.

These entities are used to display characters that have special meaning in HTML, like <, >, & etc

For Eg.)

CODE:

```
<body>
    <h1>10 &lt; 20</h1>
    <h1>20 &gt; 10</h1>
    <h1>PW    Skills</h1>
</body>
```

Output:

10 < 20

20 > 10

PW   Skills