Assignment 1-a

Title : Web Page Design

Problem statement :- Create a responsive web page which shows the ecommerce admin dashboard with the side bar and statistics in cards using HTML, CSS and Bootstrap

Objective : Apply HTML, CSS and Bootstrap classes. and demonstrate a web page that is responsive

Theory :-

1. **HTML [Hyper text Markup Language]**

- HTML is rendered on a Web Browser
  HTML has a set of elements that describe the structure of a webpage.

a. **HTML elements**
   - The HTML elements comprises of a start tag, the content and the end tag:
   - \<tagname\> Content \</tagname\>
   - The main HTML element \<html\> ..... \</html\> All the HTML will be executed within it

b. HTML Boiler plate

```
<!DOCTYP html>
<html lang = en>   <head>
    <meta charset = "UTF-8">
    <meta name = "viewport"  content = "width = device-width,
                        initial-scale = 1.0">
    <title> HTML5 Boilerplate </title>
    <link rel = "style sheets"  href = "styless">
</head>
<body>
        Other HTML elements   are per choice of
    User.
        <script src = "idexe.js"> </script>
</body>
</html>
```

C. Block-level vs. Inline Elements

○ The Block-level elements occupy the entire width
  of the Web page (height is automatic as per the content
  within element, if not explicitly mentioned)

, The Inline elements take up the width on the browser
  as much its own width only

○ Inline elements can sit next to each other in a single row
○ Inline elements can also be nested within Block-level
  elements.

d. HTML Attributes

- An attribute is a key-value pair written within an element
- An attribute is used to add more specific details to an element
- For eg. You may use a "style..." attribute in element to change the colour of text or add a background.... and much more.

2. Cascading Style Sheets [CSS]

- CSS, also known as Cascading Style sheets is used to style or acheive the desired look and feel of the web page

- CSS has a wide range of properties that can facilitate the user from changing the colour of the text to applying animations.

a. CSS Syntax :-

Selector { property : value; property : value; }

b. Types of CSS :-

- Inline CSS
- Internal CSS
- External CSS.

c. CSS Selectors

- CSS selectors are the various ways of writing a CSS
- The common selectors are:
  1. Element Selector

     eg.

     CSS:
     ```
     div {
         width: 100px;
         border: 1px solid grey;
     }
     ```

  2. ID Selector

     eg.

     HTML
     ```
     <div id="div1"> I am div 1 </div>
     ```
     CSS
     ```
     #div1
     {
         width 100px;
         border : 1px dashed orange;
     }
     ```

  3. Class Selector
  4. Universal Selector
  5. Grouping Selector
  6. Combination Selector
  7. Pseudo-class Selector

3. Boot Strap

- Bootstrap is a light-weight library of CSS
- Bootstrap 5 is common used version as of now
- It has a wide range of class that works perfectly well on all browsers.

a. Bootstrap Grid System.

- Bootstrap Grid allows 12 columns in a row on the webpage.
- The Boot strap 5 grid system has six classes.

Conclusion: Thus we have applied HTML, CSS and Bootstrap Classes and demonstrated a webpage that is responsive.