**NSS Web AA assignment**

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Q1- HTML based

(a)- HTML stands for Hypertext Markup Language.

(b)- Hyperlink can be created using <a> tag and href. General format is <a href="url">link text</a>.

(c)- The <head> element is a container for metadata (data about data) and is placed between the <html> tag and the <body> tag. Metadata is data about the HTML document. Metadata is not displayed. Metadata typically define the document title, character set, styles, scripts, and other meta information.

Q2- CSS based

(a)- CSS stands for Cascading Style Sheets.

(b)- To select an element with a specific id, write a hash (#) character, followed by the id of the element.

(C)- The box-sizing CSS property sets how the total width and height of an element is calculated.

Q3- Javascript based

(a)- The main difference between the == and === operator in javascript is that the == operator does the type conversion of the operands before comparison, whereas the === operator compares the values as well as the data types of the operands.

(b)- In JavaScript, a variable can be declared using var, let, const keywords.

var keyword is used to declare variables since JavaScript was created. let keyword is the new and recommended way of declaring variables in JavaScript.

const keyword is used to declare a constant variable that cannot be changed once assigned a value.

(C)- The global setTimeout() method sets a timer which executes a function or specified piece of code once the timer expires.

Q4- Django based

(a)-  Django is a high-level Python web framework that enables rapid development of secure and maintainable websites.

(b)- A view is a Python function that processes an incoming HTTP request and returns an HTTP response. It contains the logic that retrieves data from the database, manipulates it, and passes it to a template to render the HTML code that is sent back to the client's web browser. Views are responsible for handling the business logic of the application and determining what data should be displayed to the user.

On the other hand, a template is an HTML file that contains placeholders for dynamic content that will be replaced by data at runtime. Templates are responsible for rendering the HTML code that is sent back to the client's web browser. They use the data passed from views to generate dynamic web pages. Templates can also include logic and control structures such as loops and conditionals, but they should not contain business logic.

(c)- Django is a web framework that makes it easier to build web applications in Python. It provides a set of tools and libraries for building web applications, such as handling HTTP requests and responses, interacting with databases, and rendering HTML templates.