Assignment

Week 02 Day 01

1. What are variables &Datatypes in JS?

--> to store data in the program so that we can do operations.

--> "var" keyword to declare all types of variables

--> Supported data types : number, string, boolean

1. What is DOM? How to access DOM objects?

--> Document Object Model (DOM)

--> At the time of execution, browser will convert all the html tags into objects format.

--> These objects are interconnected in a tree format that we call it as "DOM Tree"

--> JavaScript is used to perform operations at runtime on DOM objects.

1. Event handling in JS?

HTML events are **"things"** that happen to HTML elements.

When JavaScript is used in HTML pages, JavaScript can **"react"** on these events.

1. **How to play youtube videos in HTML?**

         Upload the video to YouTube

         Take down the video id

     Define an <iframe> element in your web page

     Let the src attribute point to the video URL

Use the width and height attributes to specify the dimension of the player

1. **How to play/pause the audio using JavaScript?**

var x = document.getElementById("Audio");

function playAudio() {

x.play();

}

function pauseAudio() {

x.pause();

}

**3.What is Canvas Tag in HTML5?**

The <canvas> tag is used to draw graphics, on the fly, via scripting (usually JavaScript).

The <canvas> tag is transparent, and is only a container for graphics, you must use a script to actually draw the graphics.

Any text inside the <canvas> element will be displayed in browsers with JavaScript disabled and in browsers that do not support <canvas>. Attributes of canvas tag are height and width .

4.How to draw lines using Canvas Tag?

The beginPath() method starts a new path. It does not draw anything, it just defines a new path.

The moveTo() defines the starting point of the line. It does not draw anything, it just sets a start point.

The lineTo() method defines the end point of the line. It does not draw anything, just sets an end point.

The stroke() method draws to line. The default stroke color is black

1. **How to draw the vertical graph using Canvas Tag?**

To draw a vertical bar graph using the HTML `<canvas>` element, you can follow these steps:

1. Create an HTML file with a `<canvas>` element
2. Use JavaScript to draw the vertical bar graph on the canvas. You can use the 2D rendering context of the canvas to do this
3. `drawBar` function is responsible for drawing a single bar on the canvas. You can customize the colors, sizes, and spacing as needed.