Topics:

  Requirements to Start Coding:
    Downloads & Installation:
      1. VSCode - https://code.visualstudio.com/download
      2. NodeJS - https://nodejs.org/en/download

      Install both the downloaded Items

  VScode Extensions:
    Live Server - Ritwick Dey --> Preview HTML, CSS, JS
    vscode Icons - VsCode Icons Team --> file & folder icons
    EsLint - Microsoft --> JS Linting
    HTML CSS Support - ecmel --> HTML, CSS - Intellisense
    HTML Boilerplate - Sidthesloth --> Boilerplate
    Bracket Pair Colorization Toggler - Dzhavat Ushev - Identify code blocks with different colors
    Tabnine: AI Autocomplete - AI Tool
    Prettier: Code Formatting

  Code Formatting Setup:

    Step 1: Ctrl + Shift + P
    Step 2: Choose - Preferences: Open User Settings (JSON)
    Step 3: Copy paste the Configurations Provides

  Note: if any Extension is deprecated use the same type of extension with more no of downloads

  Opening VSCode:
    Step 1: New Fresh VSCode Window
    Step 2: File -> Open Foler (Select the Folder that You want to work with)
    Step 3: Make Sure the Title of the Window is the folder that You selected
    Step 4: Create files or folder inside you selected folder using the explorer icons

  JS Basics:

    BrowserJS Vs NodeJS

    variables:
      var, let, const
      LHS vs RHS

    functions:
      browser js default functions
        alert(); // alert the user
        prompt(); // input from the user
        confirm(); // confirming the next steps from the user

Task:
  Day 2: Setup the VSCode Properly with formatting setup as per the discussion today

Next Session:

  DataTypes:
      Primitive:
        number, string, boolean, null, undefined

      Composite: combination multiple types
        Array --> [1, 'sanjay', boolean, null]
          Note: an array can also contain compsoite types (Array, Object)

            Eg: Array can contain array itself

              [[1, 2, 3], ['Sanjay', 'Santosh', 'Manoj'], ['Python', 'JavaScript']]

                Array can also contain objects

```
            [
              { name: 'Manoj', age: 12, origin: 'Tanjavur' },
              { name: 'Sanjay', age: 25, origin: 'Chennai' },
              { name: 'Manikandan', age: 24, origin: 'Bengaluru' }
            ]

      Object --> {
        name: 'Sanjay',
        role: 'Developer',
        expe: 10,
      }
        Object Value can also be a composite value
          Eg: Object can contain array, object
              {
                "skills": ["Python", "Javascript"],
                "contact": {
                  "mobile": "9090909090",
                  "email": "sanjay@gmail.com",
                  "website": "sanjay.com"
                },
                "isIndian": true
              }


  Scope
    global ---> parent scope every scopes ()

      function ( inside function (){} )

      block {}

    {} ---> block of lines

    [] ---> Array of elements

    () ---> methods/functions

Operators:

  Arithemetic: +, -, *, /, %( 5 % 2 ---> 1 ( remainder) )
  Assignment: =
  Logical: &(and), |(or), !(not), &&, ||
  compariason: >, <, >=, <=, !=, ==, ===
  Boolean: true or false

Conditional Statements:
  if else
  switch case
  == vs ===

looping, conditions, simple problems

  looping: it is a process of repeating a block statements again and again

  for, while, do while

  how many times or when to stop the looping

  concepts in looping
  initialization, termination condition, inc/drec
```