**Module (JAVASCRIPT BASIC & DOM) – 4**

**(Conditional looping logic Question)**

* Q.30 What are the looping structures in JavaScript? Any one Example?
  + In JavaScript, there are several looping structures used for repeating a block of code until a certain condition is met. The most common looping structures are:
  + **for loop:** This loop repeats a block of code a specified number of times.
    - for (initialization; condition; increment/decrement) {
    - // code to be executed
    - }
  + Example:
    - for (let i = 0; i < 5; i++) {
    - console.log(i); // Prints numbers from 0 to 4
    - }
  + **while loop:** This loop repeats a block of code while a specified condition is true.
    - while (condition) {
    - // code to be executed
    - }
  + Example:
    - let i = 0;
    - while (i < 5) {
    - console.log(i); // Prints numbers from 0 to 4
    - i++;
    - }
  + **do...while loop:** This loop is similar to the while loop, but the code block is executed at least once before the condition is tested.
    - do {
    - // code to be executed
    - } while (condition);
  + Example:
    - let i = 0;
    - do {
    - console.log(i); // Prints numbers from 0 to 4
    - i++;
    - } while (i < 5);
  + These looping structures are fundamental in JavaScript for iterating through arrays, processing data, and executing repetitive tasks.