

1. What is Modular Programming?

Ans: It is the early stage in the development of structured programming. It is a programming approach that helps improving programmer productivity through better planning. In this approach the program is broken down into modules, each of which performs a single and independent limited function to reduce the possibility of errors.

2. What are the advantages of High-Level languages?

- a. Relatively easy to write, debug and maintain;
- b. Less error prone, easy to find and debug the errors;
- c. Machine independent language;
- d. Programs written for one computer can easily be used on another computer with a minor modification;
- e. Programmer friendly as easy to understand and modify.

3. What are the differences between flow-chart and structure-chart?

- a. A Flow-Chart is used to highlight the sequences of events in a module where a Structure-chart highlights the relationship between modules;
- b. In Structure-chart only rectangles symbol is used in diagrammatic representation where in Flow-Chart rectangles, parallelograms and diamonds are used;
- c. Flow-Chart is easily understandable for the beginners where Structure-chart is difficult to understand as the solution is displayed in hierarchical orders.
- d. Flow-Chart is a symbolic representation of algorithm and Structure-chart is a planning tool of top-down structured program.

4. What do you mean by testing & debugging?

Ans: If a program doesn't perform its predefined output correctly, that means there are errors in the program known as bug. The source of bug must be identified and corrected to ensure the proper output of the program. The process of identifying or detecting bugs is known as testing and the process of correcting bugs or errors is known as debugging. Testing can be done manually or automatically by the testers but debugging can only be done manually by the developers.

5. What are the differences between internal and external subroutines?

- a. Internal Subroutines is part of the program where External Subroutines is not a part of the program rather is considered as a separate program;

- b. Internal Subroutines is represented by horizontally striped process outline where External Subroutines uses predefined process outline to represent program;
- c. In Internal Subroutines the instruction is stored in a register but in External Subroutines the instruction is stored in a library;
- d. Internal Subroutines begins and ends with a terminal outline but in External Subroutines there is no such outline;
- e. Internal Subroutines is used for data processing where External Subroutines is used for complex processing.

6. Define the steps of programming process?

- a. Defining the problem;
- b. Preparing an algorithm;
- c. Preparing a program flowchart;
- d. Coding;
- e. Debugging and testing;
- f. Documenting

7. Describe the types of list in HTML?

Ans: In HTML there are 3 types of lists. They are:

- a. Definition List (dl): Definition lists are useful when you have a group of terms that need descriptions. Definition lists are typically formatted with the term on the left with the definition following on the next line. The definition text is typically indented with respect to the term.
- b. Ordered List (ol): An ordered list typically is a numbered list of items that is used to define a list of items for which the sequence is important to the meaning of the content. Any step-by-step process is best presented as an ordered list. Ex: a ranking of something.
- c. Unordered List (ul): An unordered list typically is a bulleted list of items that is used to define a generic list for which the sequence of items is not important. It is the most commonly used elements on the web.

8. What are the purposes and Features of using HTML?

Purpose: The main purpose of HTML is to create web pages for websites. HTML gives the user to add graphical interface just as video, audio, pictures, rich text format and many more. In total, it is a language that is a standard for describing the structure and presentation of information in a website and which can help users to customize their webpage as desired.

Features:

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- a. Canvass to draw graphics;
- b. Cross-document messaging;
- c. Drag & drop;
- d. Embedding of Scalable Vector Graphics (SVG) directly;
- e. Geolocation;
- f. Microdata;
- g. History management;
- h. Offline web applications;
- i. Web storage;
- j. Web workers

9. Describe the uses of the following tags: <canvas>; <map>; ; <ins>?

Ans:

<canvas>: This tag usually works as a container for graphics which is used to draw dynamic bitmap graphics using JavaScript.

<map>: It is used in conjunction with the <area> tag and tag to define hyperlink regions of an image map.

<blockquote>: It is used to indicate the quotation of a large section of text from another source.

** & <ins>:** <ins> tag represents a range of text that has been inserted to a document while tag represents a removal of text from a document. Browsers usually underline inserted text and strike a line through deleted text.

10. What are the differences between HTML4 & HTML5?

- a. The syntax in HTML5 is extremely clear & simple as compared to HTML4. In HTML4 the DOCTYPE declaration was too messy & lengthy while in HTML5 a mere <!DOCTYPE HTML> is enough to specify the document type;
- b. HTML4 has a very loose syntax - for example closing tags are often optional. On the other hand, in HTML5 closing of some tags is a must while some isn't;
- c. HTML5 contains built in support for integrated multimedia files into web page via video & audio tags where in HTML4 it needs a third-party plugin to get that support;
- d. In HTML4 it was an extremely cumbersome task to get the geographical locations of the visitors but in HTML5 it is awfully easy to get the users geographical location;
- e. HTML4 is compatible with almost all the web-browsers. On the contrary, HTML5 is still in the process of evolution which is why it lags behind HTML4 in terms of compatibility with the browsers;

- f.** Moreover, in HTML5 some tags are removed, some are modified and some new tags are introduced to cop-up with the changing needs & demands in web industry.